AHMED HETA

مستر أحمد حتة

MATH TEACHER

تأسيس الماث

يمكنكم متابعة كل جديد عبر قناتنا على اليوتيوب

Ahmed7eta

في انتظار استفساركم طول اليوم

01065820300

موقع الدكتور محمد رزق معلم الكيمياء التعليمي D.M.RAZK

Content

- Math basics
- Adding numbers
- Subtraction
- Big numbers
- Adding and subtracting big numbers
- Multiplication strategies
- Division
- New curriculum strategies
- Geometry
- Additional mathematical skills

By love ...
Mr.Ahmed Heta

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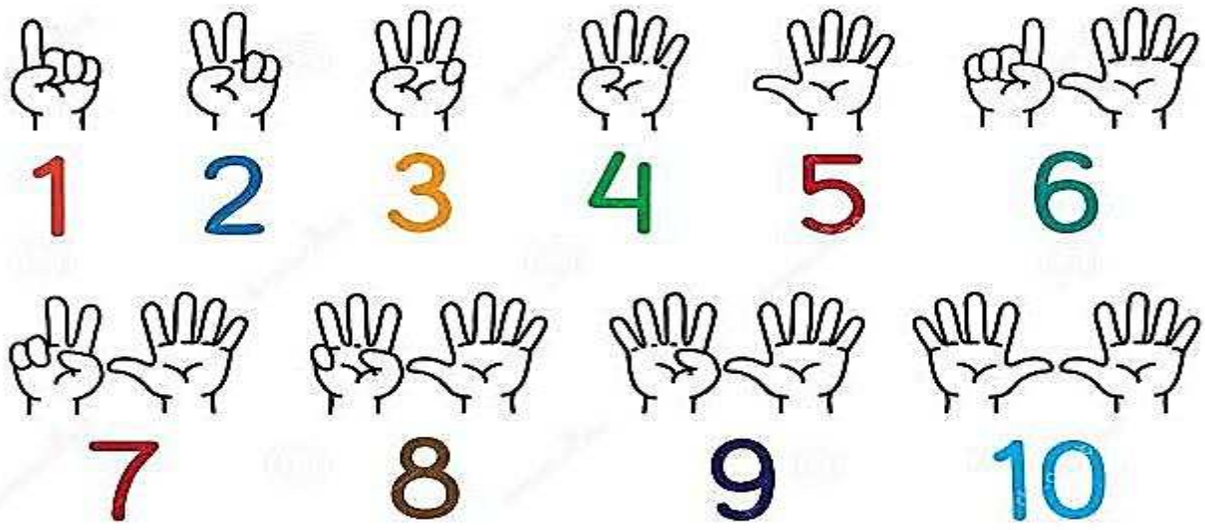
Part 1: math basics



1 One 1 one …….. …….. …….. …….. …….. …….	2 Two …….. …….. …….. …….. …….. …….. ……..	3 Three …….. …….. …….. …….. …….. …….. ……..	4 Four …….. …….. …….. …….. …….. …….. ……..	5 Five …….. …….. …….. …….. …….. …….. ……..
6 Six …….. …….. …….. …….. …….. …….. …….. ……..	7 Seven …….. …….. …….. …….. …….. …….. …….. ……..	8 Eight …….. …….. …….. …….. …….. …….. …….. ……..	9 Nine …….. …….. …….. …….. …….. …….. …….. ……..	10 Ten …….. …….. …….. …….. …….. …….. …….. ……..

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5 6 7	1 3 5
9 10 2	4 5 7
3 4 2	8 9 10
6 4 10	8 4 3
2 3 1	6 7 8

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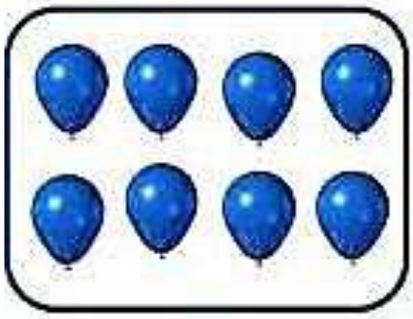
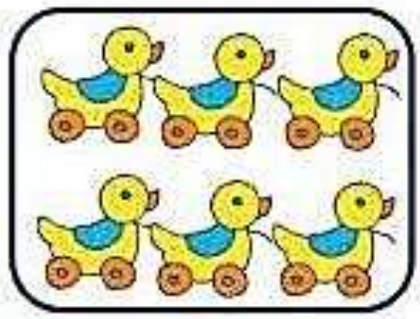
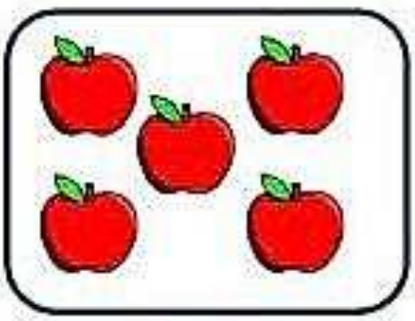
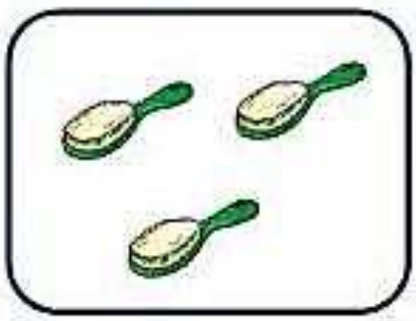
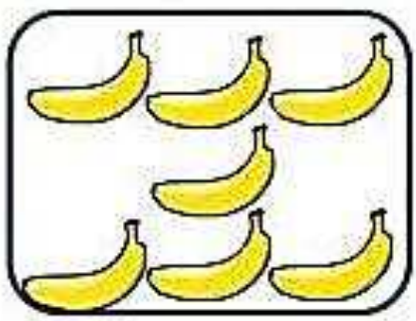
Count and write the number.

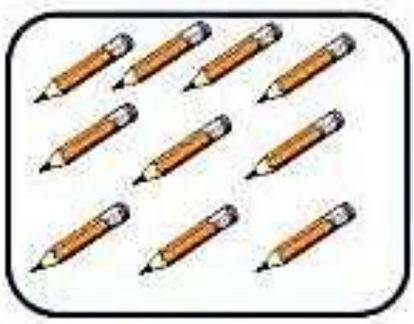


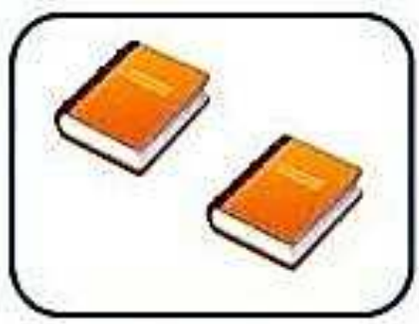












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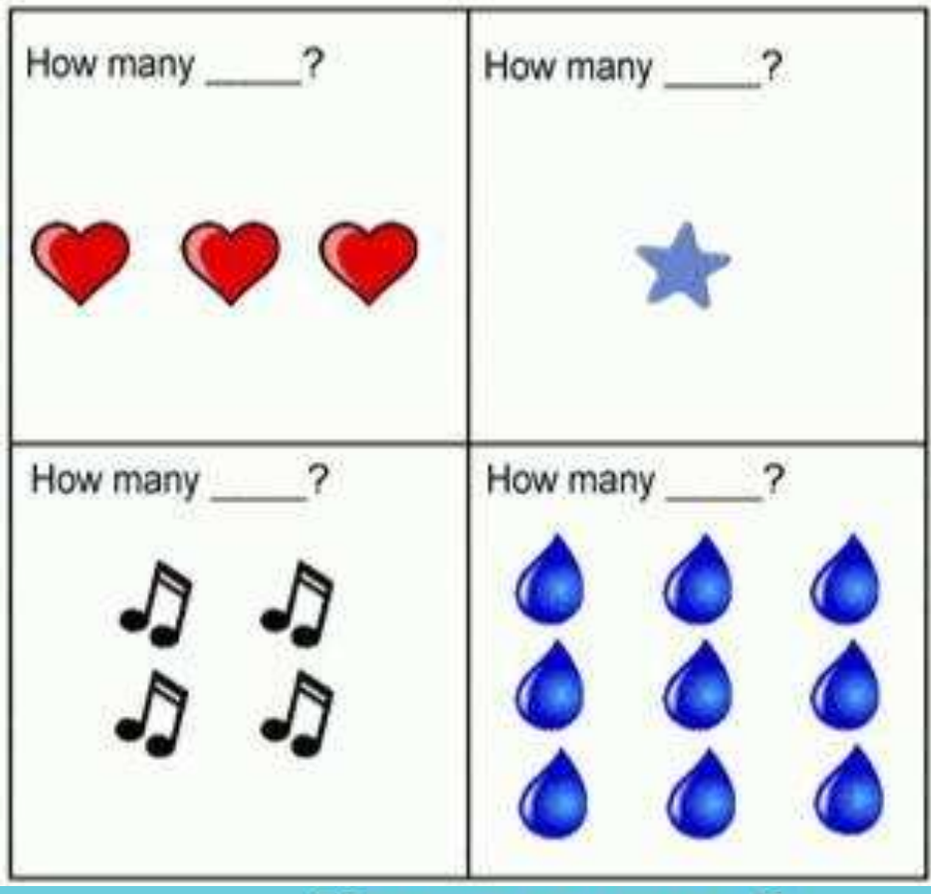

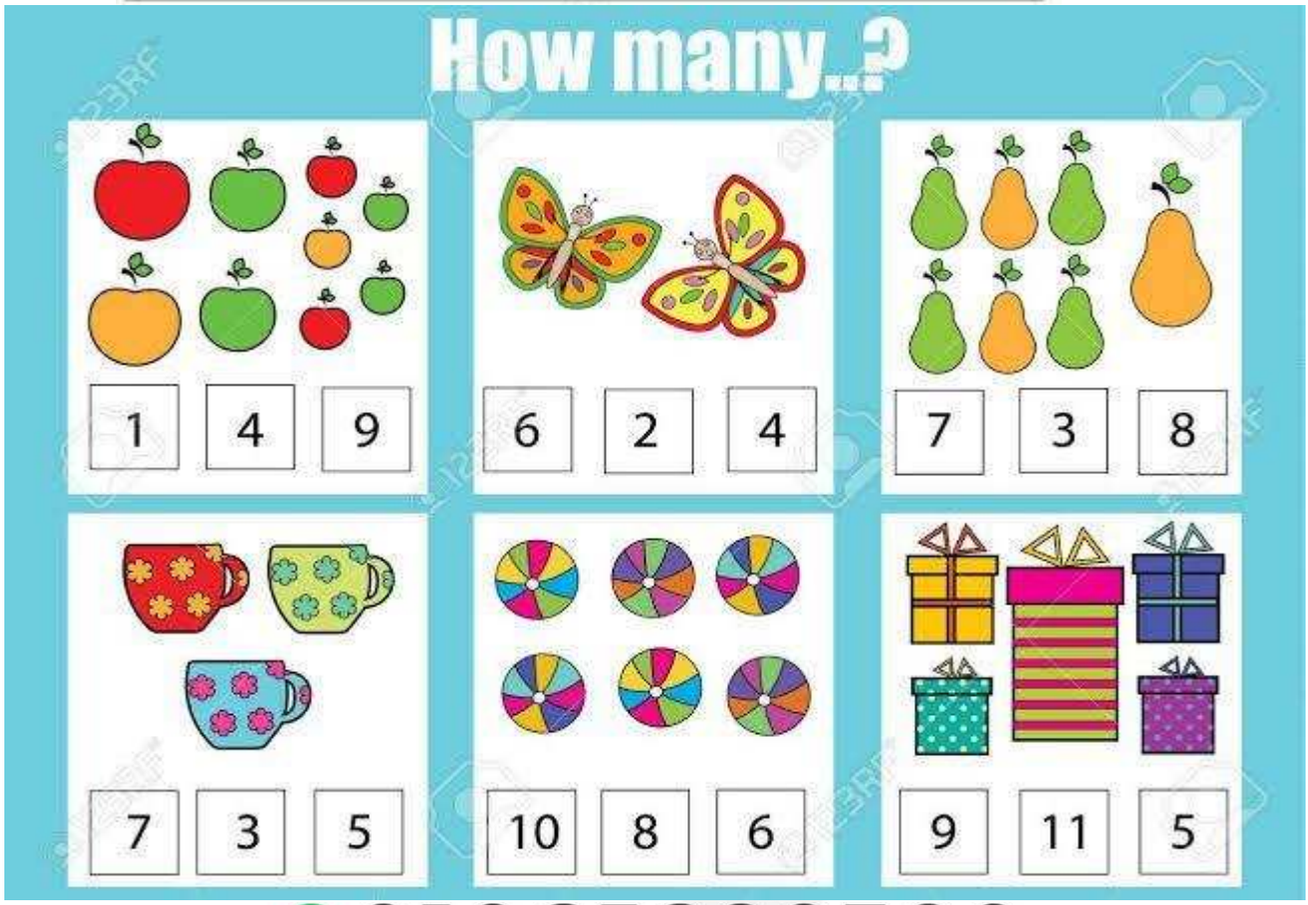

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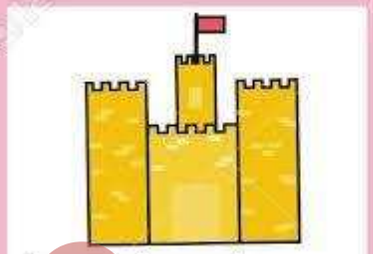

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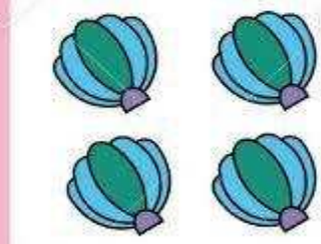

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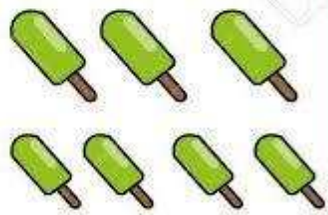
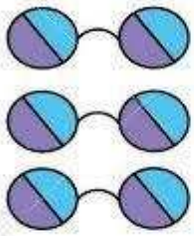
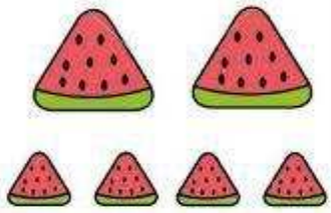


7 3 8



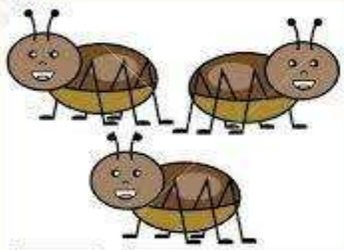
7 3 5



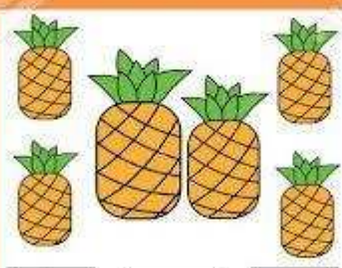
10 8 6

9 11 5

How many..?



1 5 3

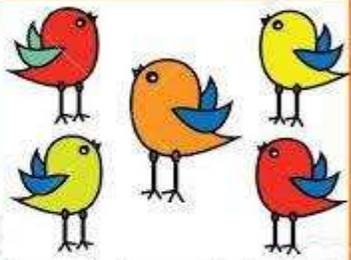


6 2 4

7 9 8

3 4 7

10 8 6



9 11 5

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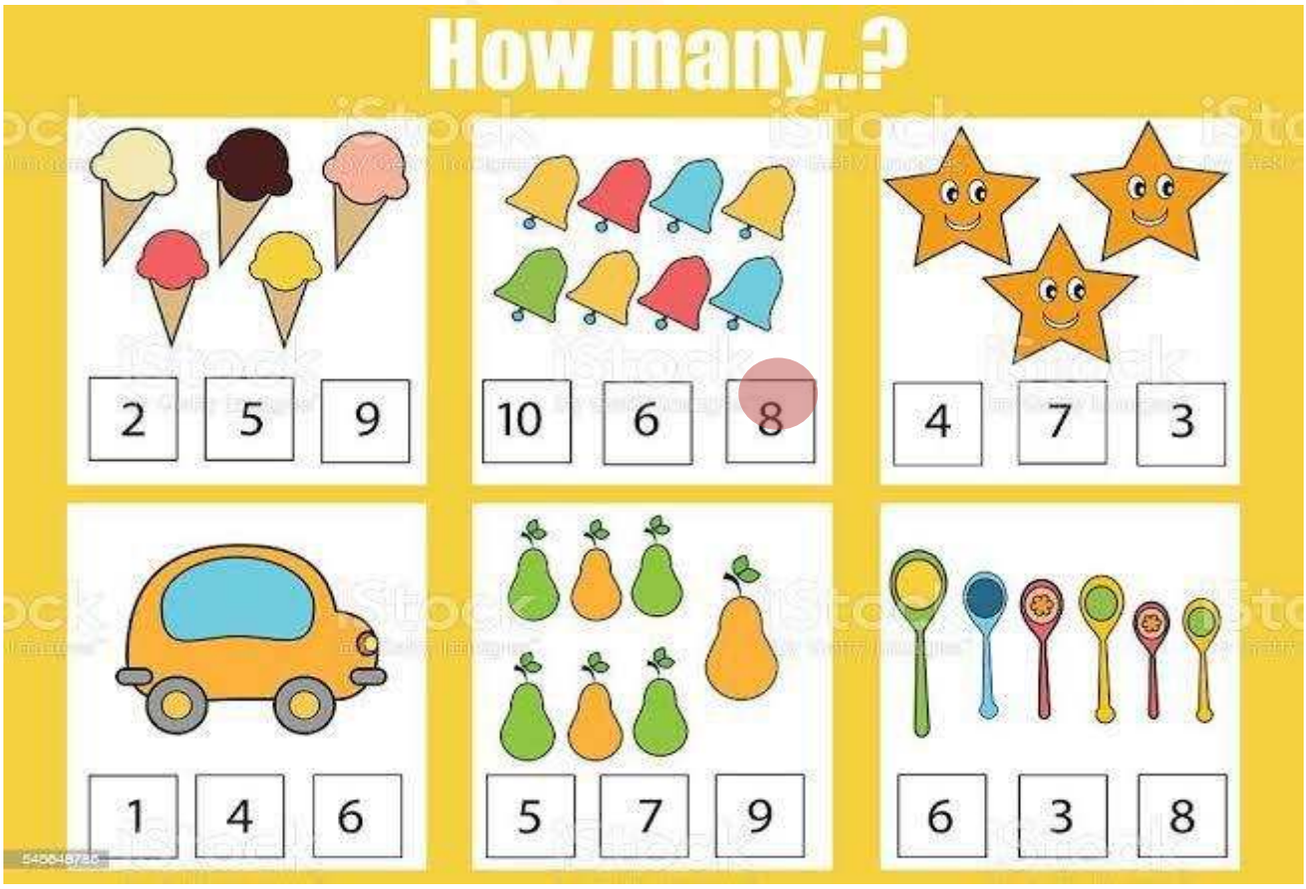

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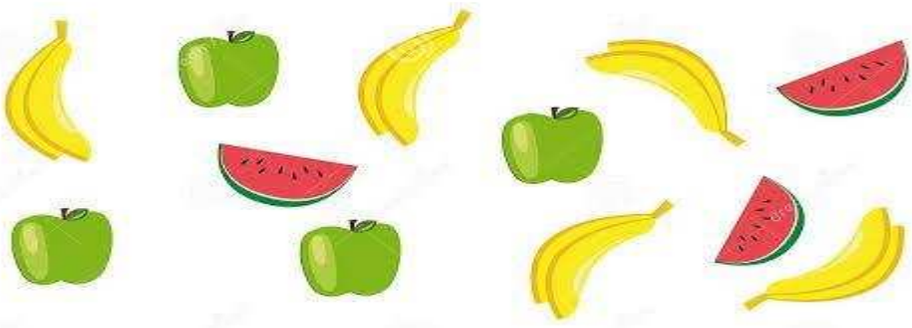

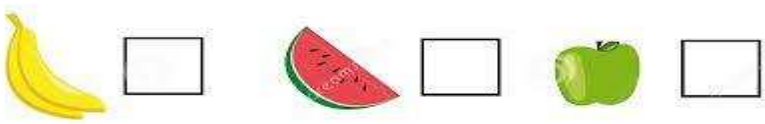

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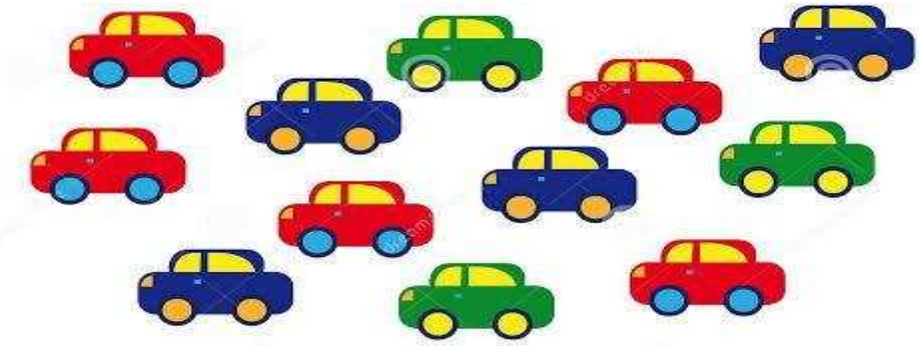

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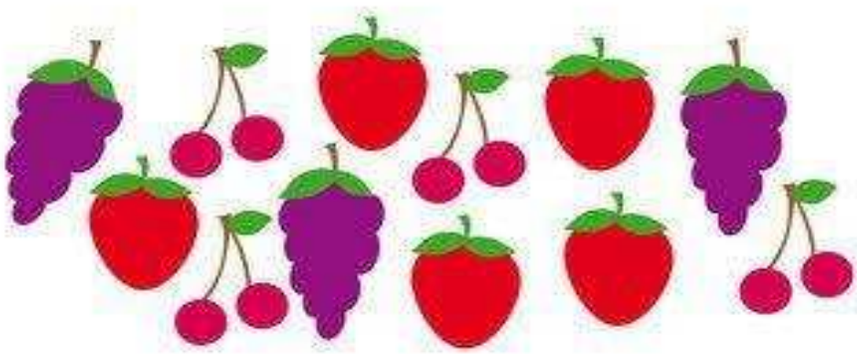

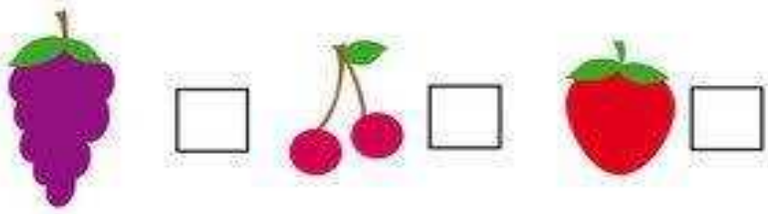

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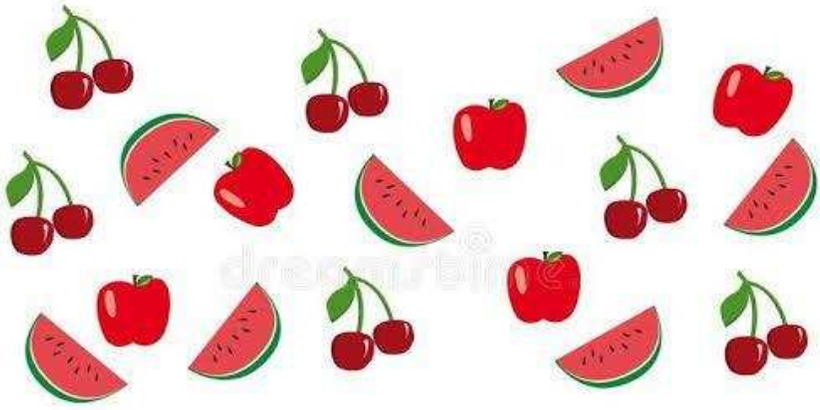

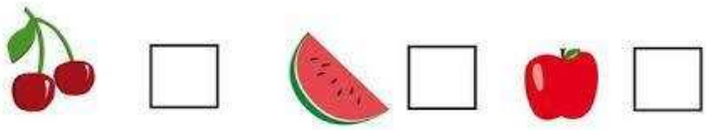

How many?

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

11 Eleven	12 Twelve	13 Thirteen	14 Fourteen	15 Fifteen
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....

16 Sixteen	17 Seventeen	18 Eighteen	19 Nineteen	20 Twenty
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....

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Twenty one	……	……	……
Twenty two	……	……	……
Twenty three	……	……	……
Twenty four	……	……	……
Twenty five	……	……	……
Twenty six	……	……	……
Twenty seven	……	……	……
Twenty eight	……	……	……
Twenty nine	……	……	……
Thirty	……	……	……

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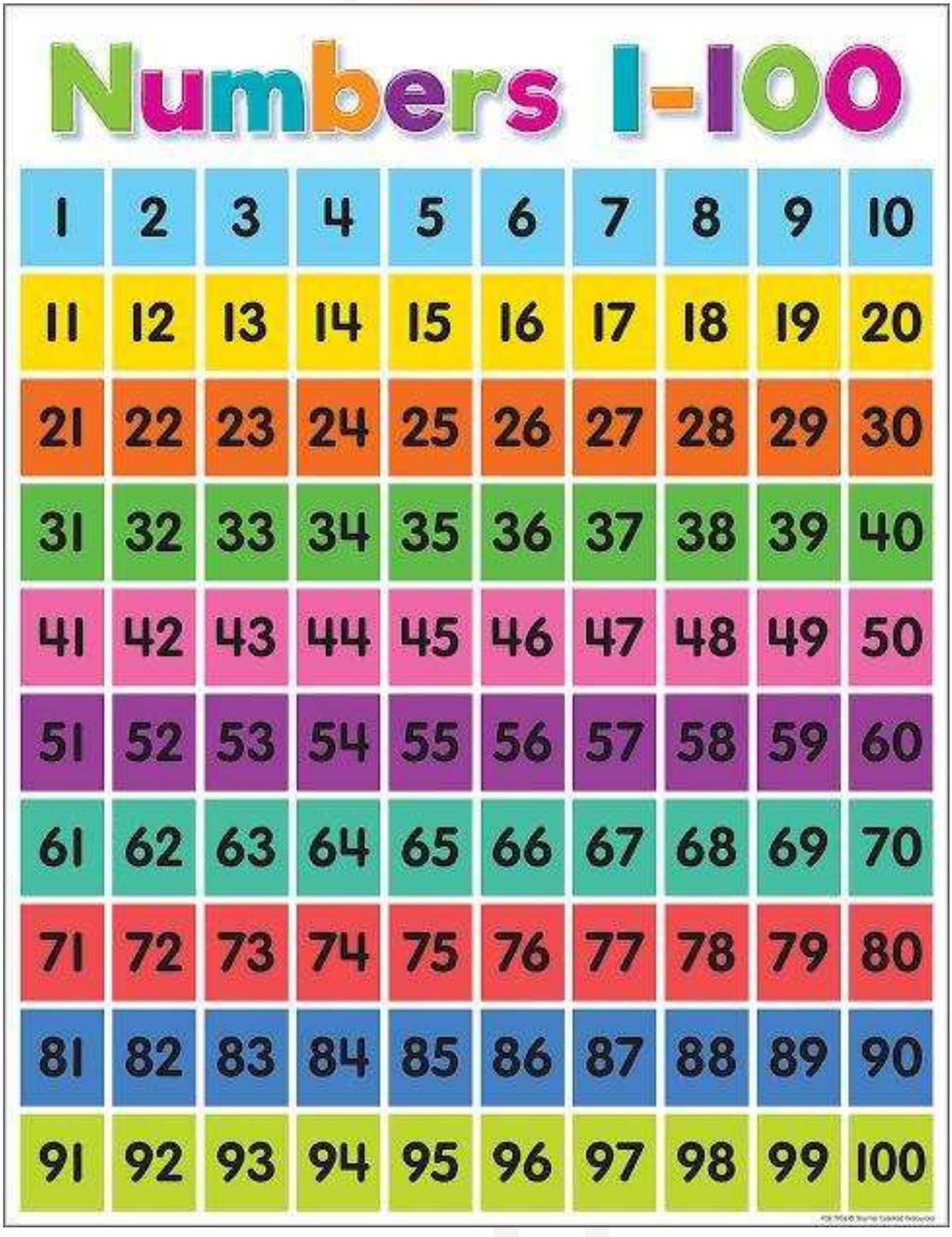
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي



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NUMBER CHART: 1-100

1 one	11 eleven	21 twenty -one	31 thirty -one	41 forty- one	51 fifty- one	61 sixty- one	71 seventy -one	81 eighty- one	91 ninety- one
2 two	12 twelve	22 twenty- two	32 thirty- two	42 forty- two	52 fifty- two	62 sixty- two	72 seventy -two	82 eighty- two	92 ninety- two
3 three	13 thirteen	23 twenty- three	33 thirty- three	43 forty- three	53 fifty- three	63 sixty- three	73 seventy -three	83 eighty- three	93 ninety- three
4 four	14 fourteen	24 twenty- four	34 thirty- four	44 forty- four	54 fifty- four	64 sixty- four	74 seventy -four	84 eighty- four	94 ninety- four
5 five	15 fifteen	25 twenty- five	35 thirty- five	45 forty- five	55 fifty- five	65 sixty- five	75 seventy -five	85 eighty- five	95 ninety- five
6 six	16 sixteen	26 twenty- six	36 thirty- six	46 forty- six	56 fifty- six	66 sixty- six	76 seventy -six	86 eighty- six	96 ninety- six
7 seven	17 seventeen	27 twenty- seven	37 thirty- seven	47 forty- seven	57 fifty- seven	67 sixty- seven	77 seventy -seven	87 eighty- seven	97 ninety- seven
8 eight	18 eighteen	28 twenty- eight	38 thirty- eight	48 forty- eight	58 fifty- eight	68 sixty- eight	78 seventy -eight	88 eighty- eight	98 ninety- eight
9 nine	19 nineteen	29 twenty- nine	39 thirty- nine	49 forty- nine	59 fifty- nine	69 sixty- nine	79 seventy -nine	89 eighty- nine	99 nienty- nine
10 ten	20 twenty	30 thirty	40 forty	50 fifty	60 sixty	70 seventy	80 eighty	90 ninety	100 one hundred

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1	2		4		6			9	10
11		13		15		17		19	
	22		24		26		28		30
31		33		35			38	39	
	42		44		46	47		49	50
51			54	55		57		59	
	62	63			66		68		70
71		73			76	77		79	80
81	82		84	85			88		
91		93	94		96	97	98		100

1	2	...	...	...	...	...	...	...	10
...	...	...	...	...	...	...	...	19	...
...	22	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...
...	...	...	...	45	...	...	...	...	...
...	...	...	...	...	...	...	...	...	50
...	...	53	...	...	...	...	...	...	...
61	...	...	...	...	...	...	...	...	70
...	...	...	74	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	99	...

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One	…	three	….	…
six	…	…	…	…
…	…	…	fourteen	…
….	…	…	…	Twenty
Twenty one	Twenty two	…	…	…
…	…	…	…	Thirty
…	…	Thirty three	…	…
…	…	…	…	Forty
Forty one	…	Forty three	…	….
Forty six	…	Forty eight	…	Fifty
…	Fifty two	….	Fifty four	Fifty five
….	Fifty seven	…	Fifty nine	Sixty
….	….	…	…	…
Sixty six	…	…	…	Seventy
Seventy one	…	Seventy three	…	…
….	Seventy seven	Seventy eight	….	Eighty
Eighty one	Eighty two	….	Eighty four	...
Eighty six	...	…	…	Ninety
…	...	...	…	…
…	…	…	…	One hundred

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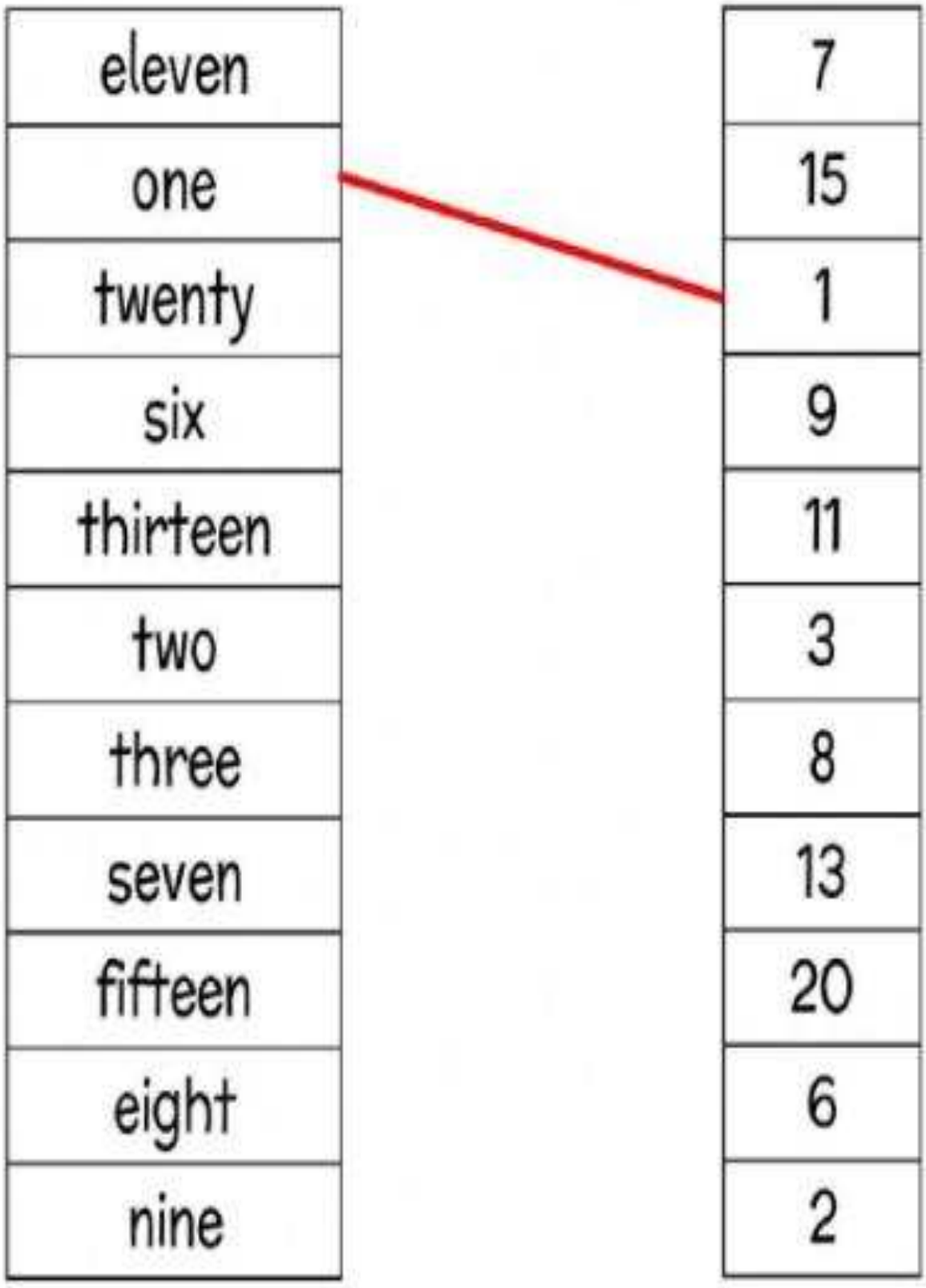
eleven
one
twenty
six
thirteen
two
three
seven
fifteen
eight
nine
7
15
1
9
11
3
8
13
20
6
2

eight	5	13	8
sixteen	16	6	19
fourteen	14	24	4
twenty	2	12	20
ten	9	10	2
three	3	6	9
thirteen	16	13	4
nineteen	9	16	19
eleven	11	12	1
twelve	12	11	1

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Thirty-three	33	30	32
Twenty-Nine	26	29	39
Twenty-Five	15	35	25
Thirty-Five	15	35	25
Thirty-One	31	30	21
Thirty-Nine	39	36	29
Thirty	30	20	25
Thirty-Six	36	39	38
Thirty-four	24	27	34

1

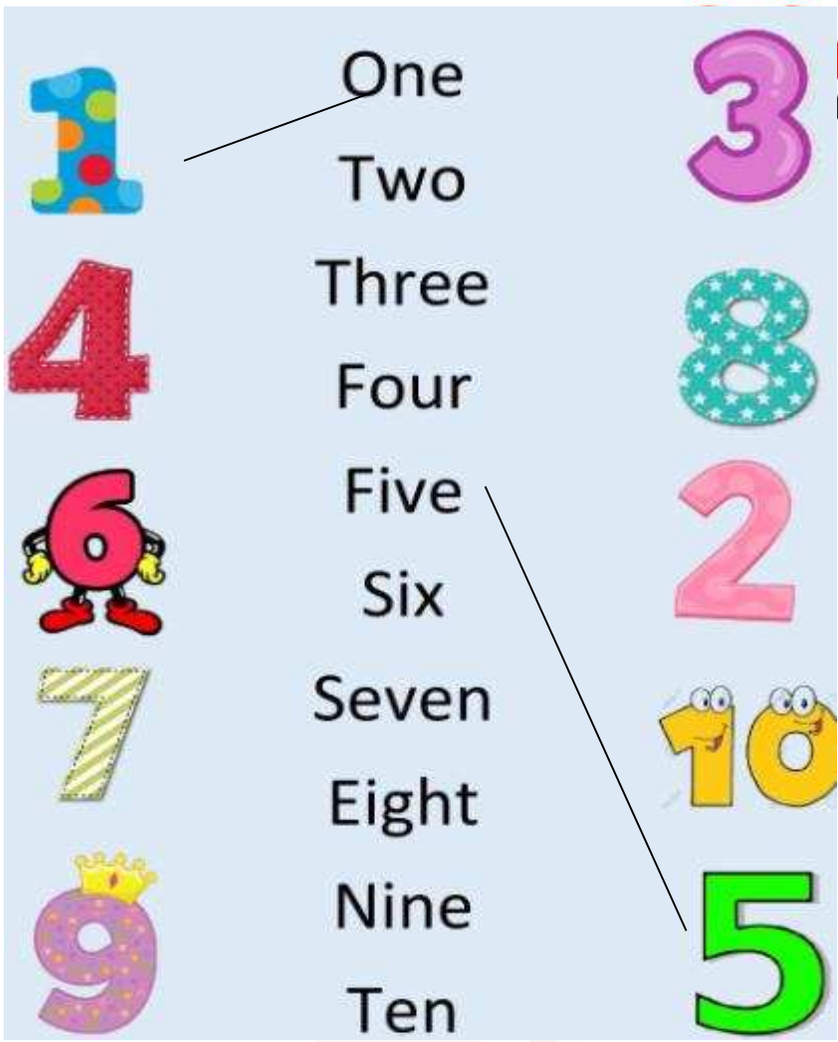
5

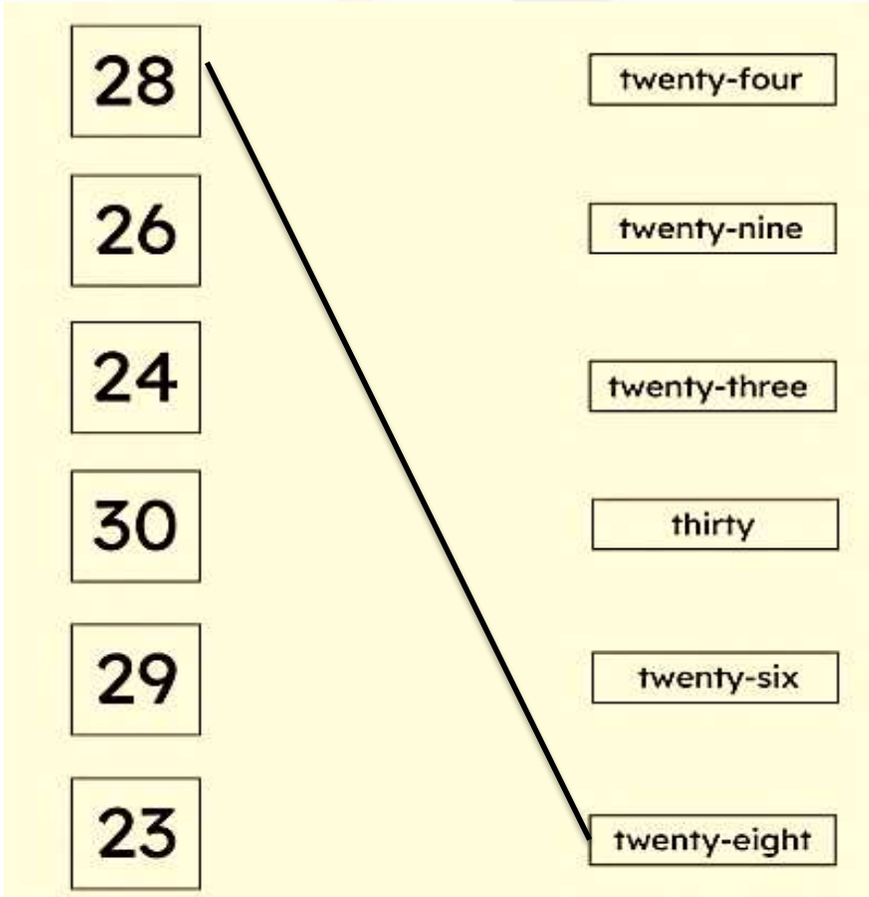
9

6

3

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي





D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

MATCH THE NUMBER NAMES

3	Six
15	Eleven
8	Three
6	Nine
11	Eight
9	Five
10	Thirteen
5	Ten
13	Fifteen

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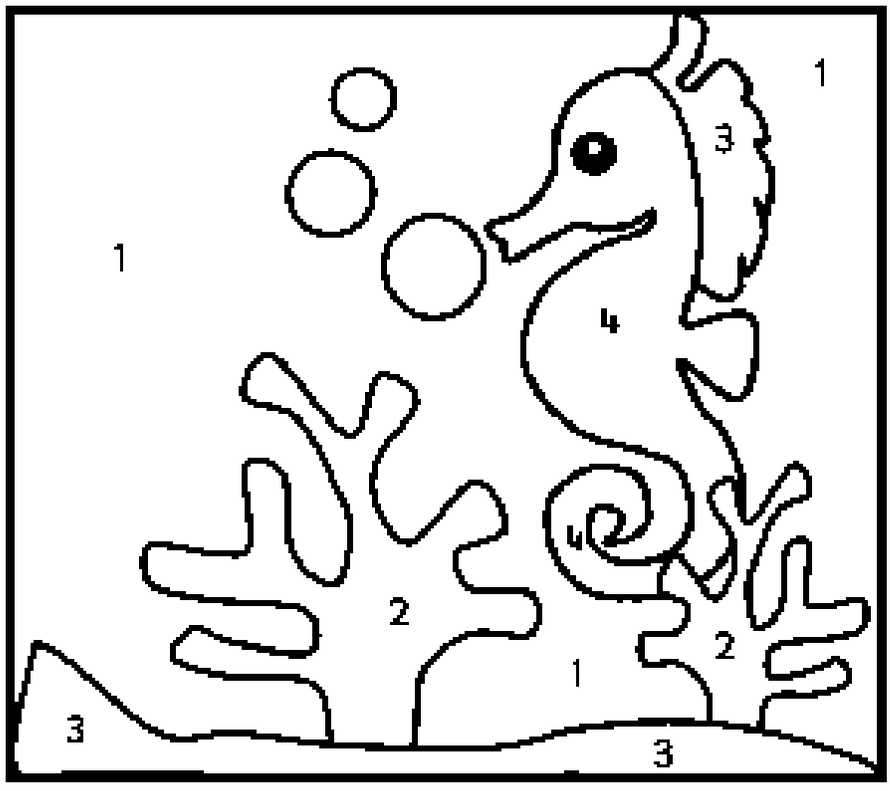
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

1 =

2 =

3 =

4 =

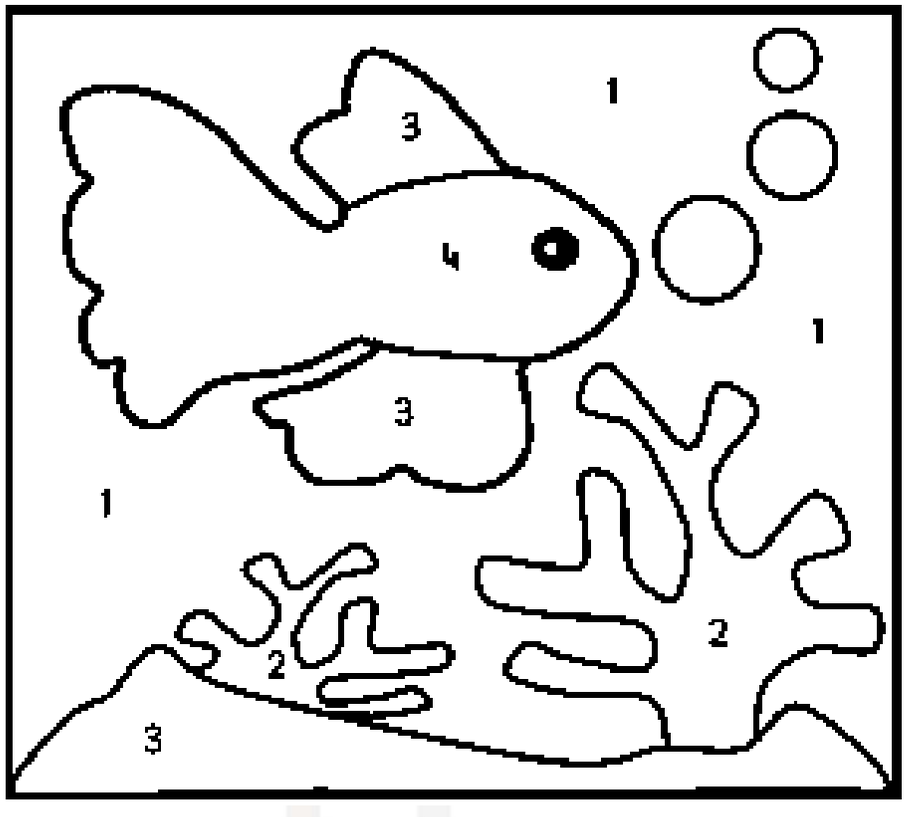


1 =

2 =

3 =

4 =



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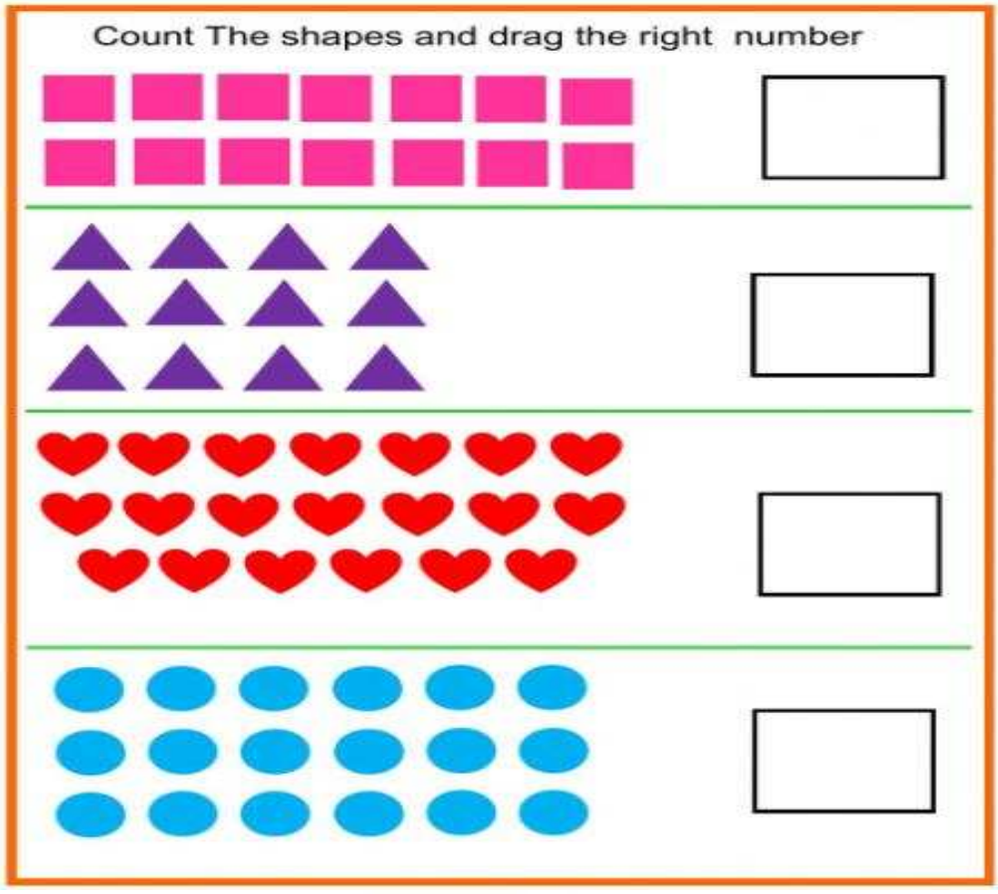
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي



Read the numbers and write them in words

10	20
_____	Twenty
30	40
_____	_____
50	60
_____	_____

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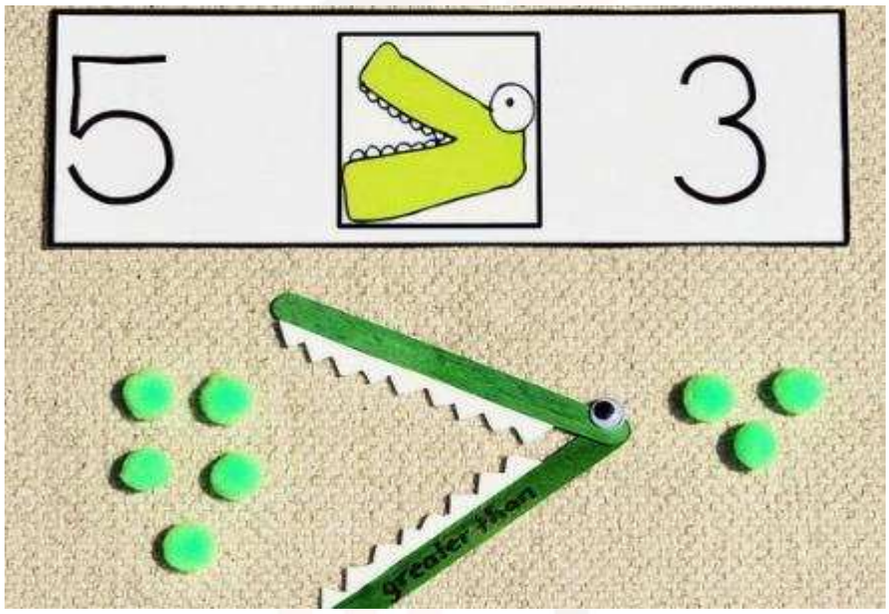
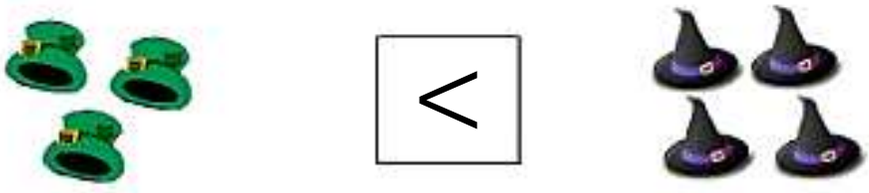
10	19	2	7
Ten			
3	12	18	1
15	4	11	8
5	13	9	16
20	6	14	17

three	twelve	two	twenty
seventeen	four	sixteen	fourteen
eleven	six	~~ten~~	nineteen
one	thirteen	eighteen	seven
eight	nine	five	fifteen

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

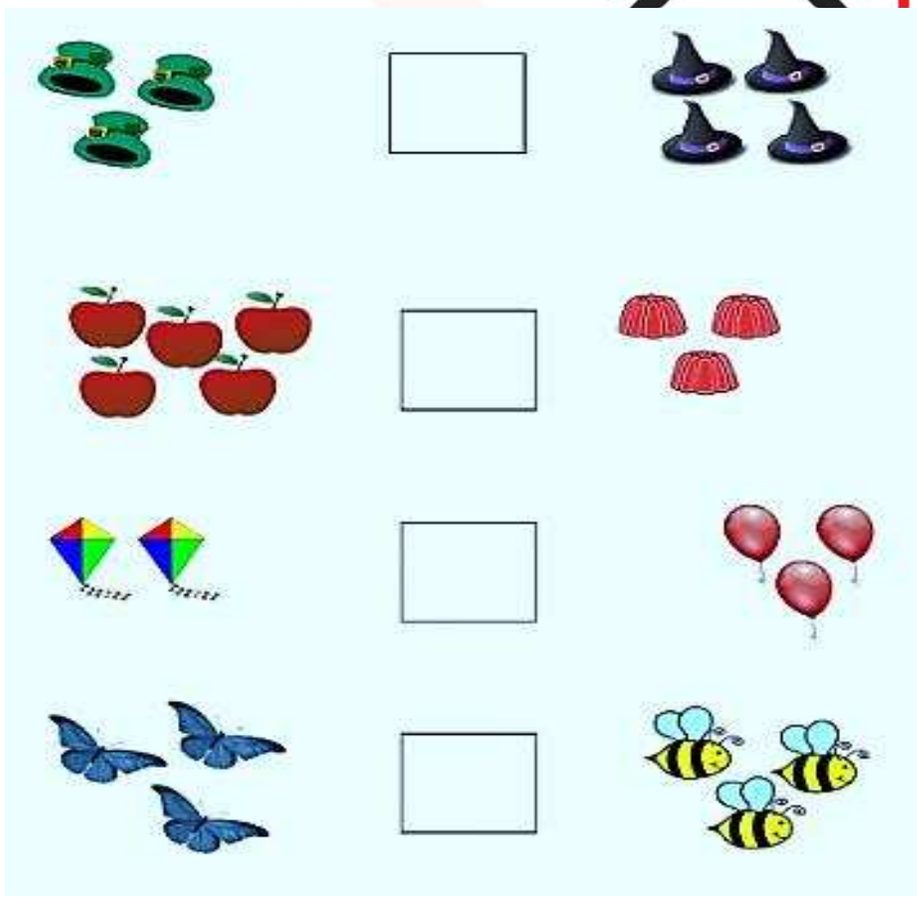


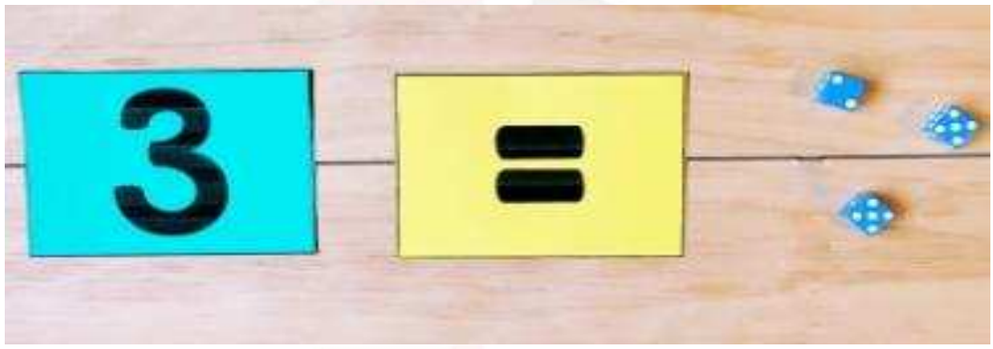


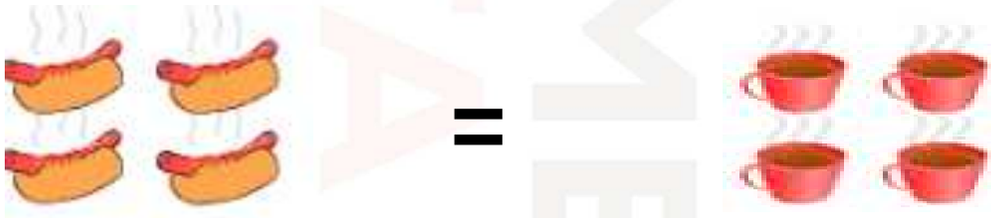
3 4

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Which bigger ?







4 4

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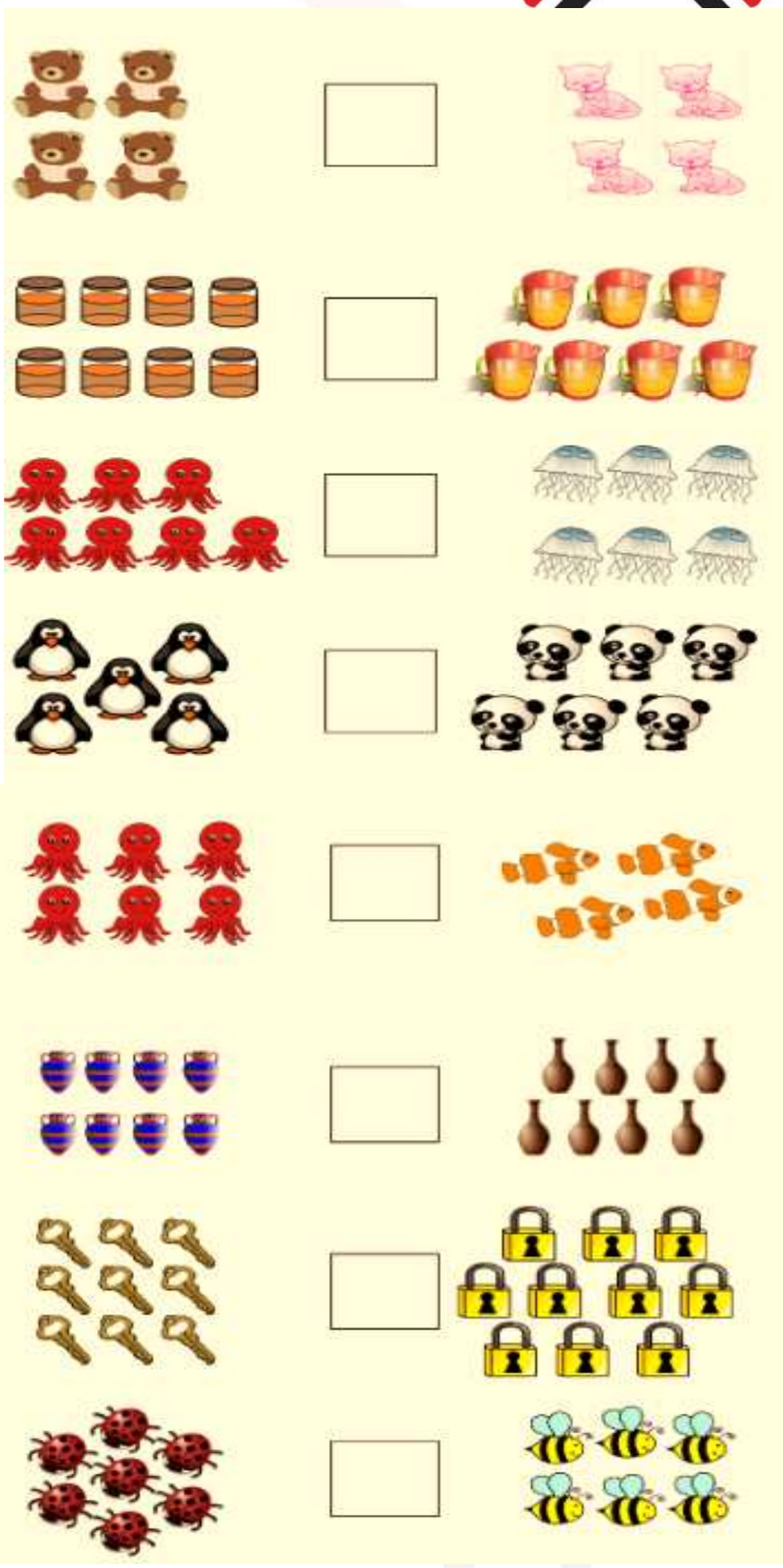
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Which bigger?



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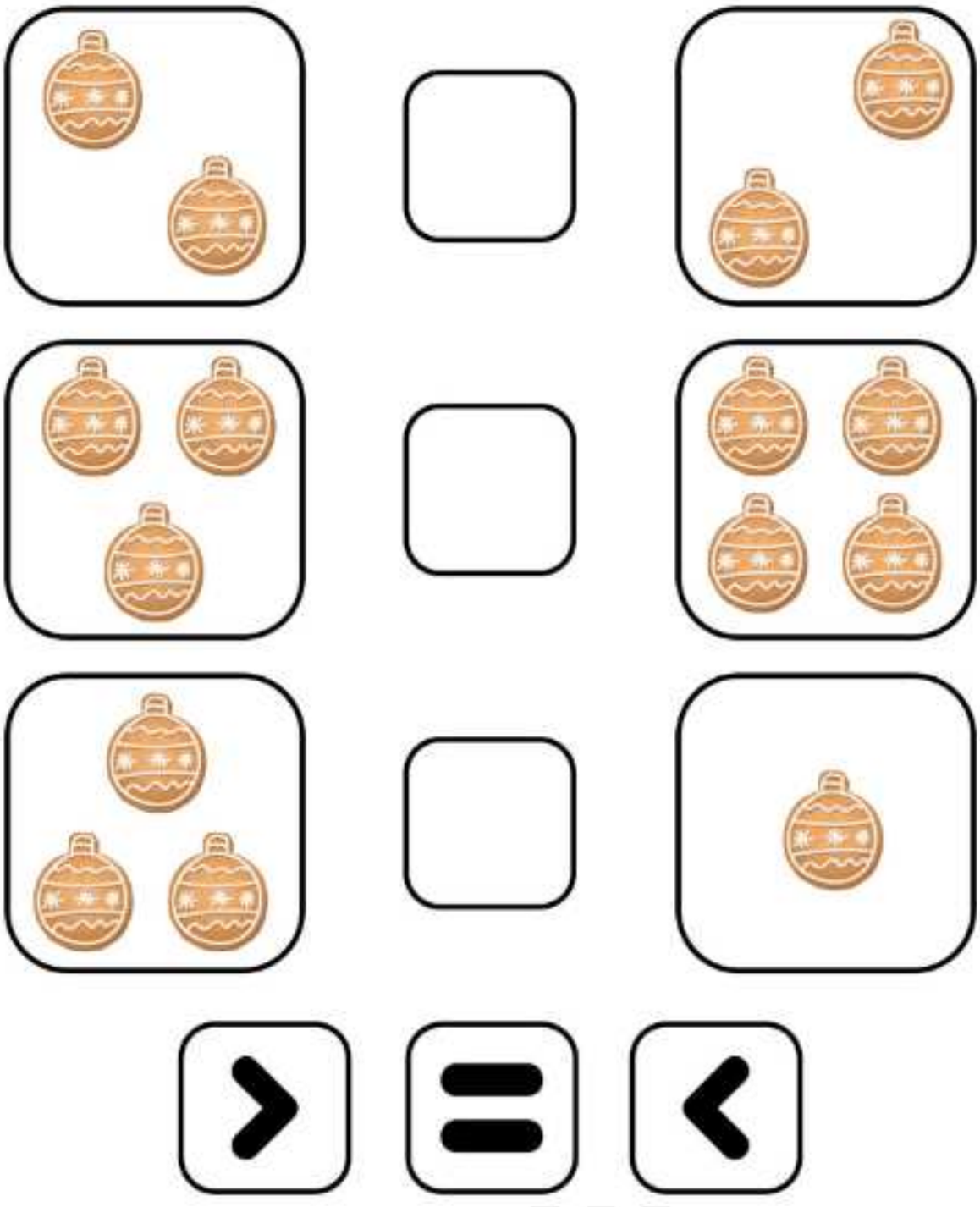
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

MORE. LESS. EQUAL



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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

5	>	3
4	=	4
2		1
7		8
3		0
8		7
6		3
2		9
1		7
8		6
3		2
4		7
5		5
8		8
10		9

0		11
9		3
4		7
7		5
9		9
19		8
2		4
8		4
5		3
1		10
2		7
8		4
5		4
4		11
8		2

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

1 ☐ 5	3 ☐ 3
7 ☐ 3	5 ☐ 8
6 ☐ 2	9 ☐ 1
2 ☐ 9	4 ☐ 4
8 ☐ 4	1 ☐ 10

3 ☐ 9	2 ☐ 7
5 ☐ 2	1 ☐ 1
8 ☐ 10	4 ☐ 3
7 ☐ 1	6 ☐ 5
9 ☐ 4	10 ☐ 8

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

How to compare between 2-digits numbers?

Example:

57 ☐ 29

32 ☐ 38

1- We start from the left and compare digit by digit

2- The number with the bigger digit will be the bigger

57 > 29

3- If the two digits are equal we will move the next digits

32 < 38

45	<	59	78		65
60		26	51		40
82		82	29		16
91		99	33		33
74		50	11		12

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

0~100

> Greater Than

Less Than

or Equal To

=

Write in the symbol that makes the problem true.

>, < or =

1. 35 ☐ 52	2. 40 ☐ 74	3. 45 ☐ 30
4. 84 ☐ 77	5. 38 ☐ 64	6. 51 ☐ 39
7. 43 ☐ 43	8. 79 ☐ 28	9. 99 ☐ 89
10. 23 ☐ 22	11. 66 ☐ 77	12. 6 ☐ 16
13. 98 ☐ 89	14. 18 ☐ 18	15. 30 ☐ 49

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Essay problems

1) What the number after 4 ? .....

2) What the number before 10 ? .....

3) 6 , 7 , 8 , ... , ... , ... , ... , ...

4) What the number between 7 and 9 ? .....

5) If Ahmed has 4 apples and Mariam has 7 apples , so who has more ? .....

6) What the number after 35 ? .....

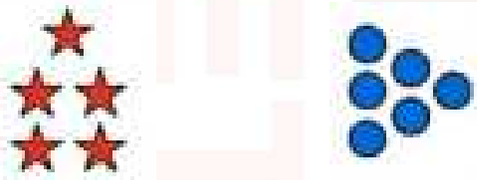
7) What the number after 76 ? .....

8) What the number before 11 ? .....

9) What the number before 32 ? .....

10) Which more the stars or the circles ?

.....



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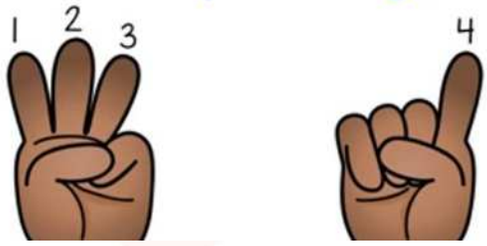
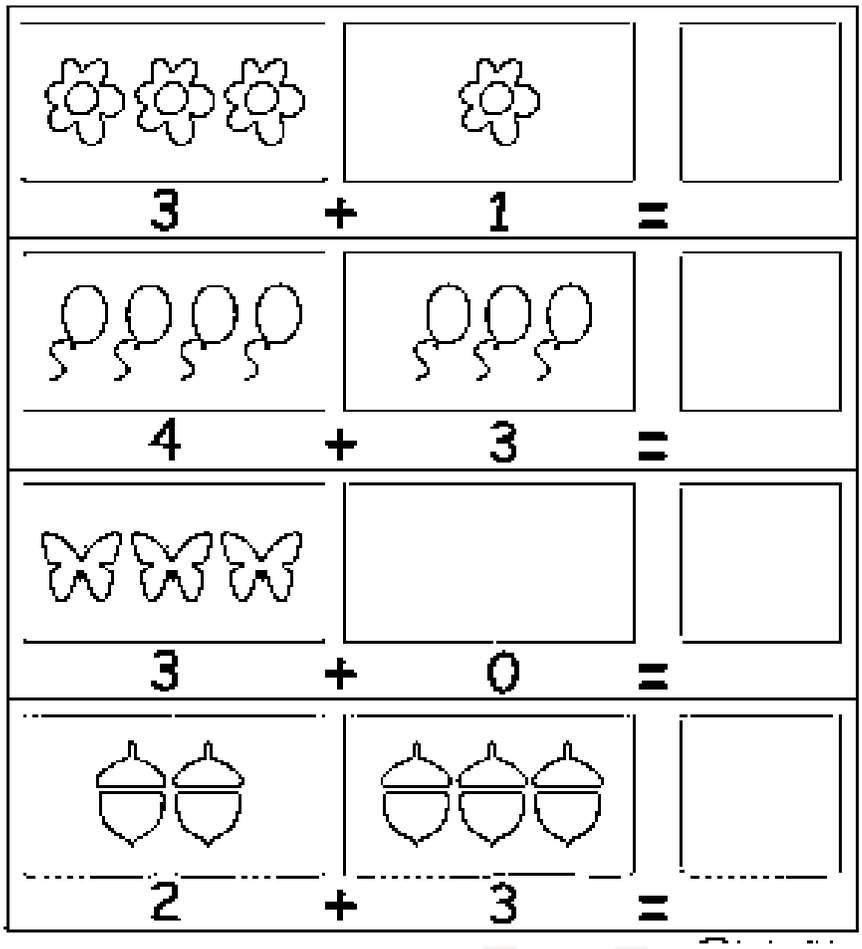
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Part 2: Adding numbers

$3 + 1 = 4$

1. Hold up 3 fingers on one hand.
2. Hold up 1 finger on your other hand.
3. Count all your fingers!





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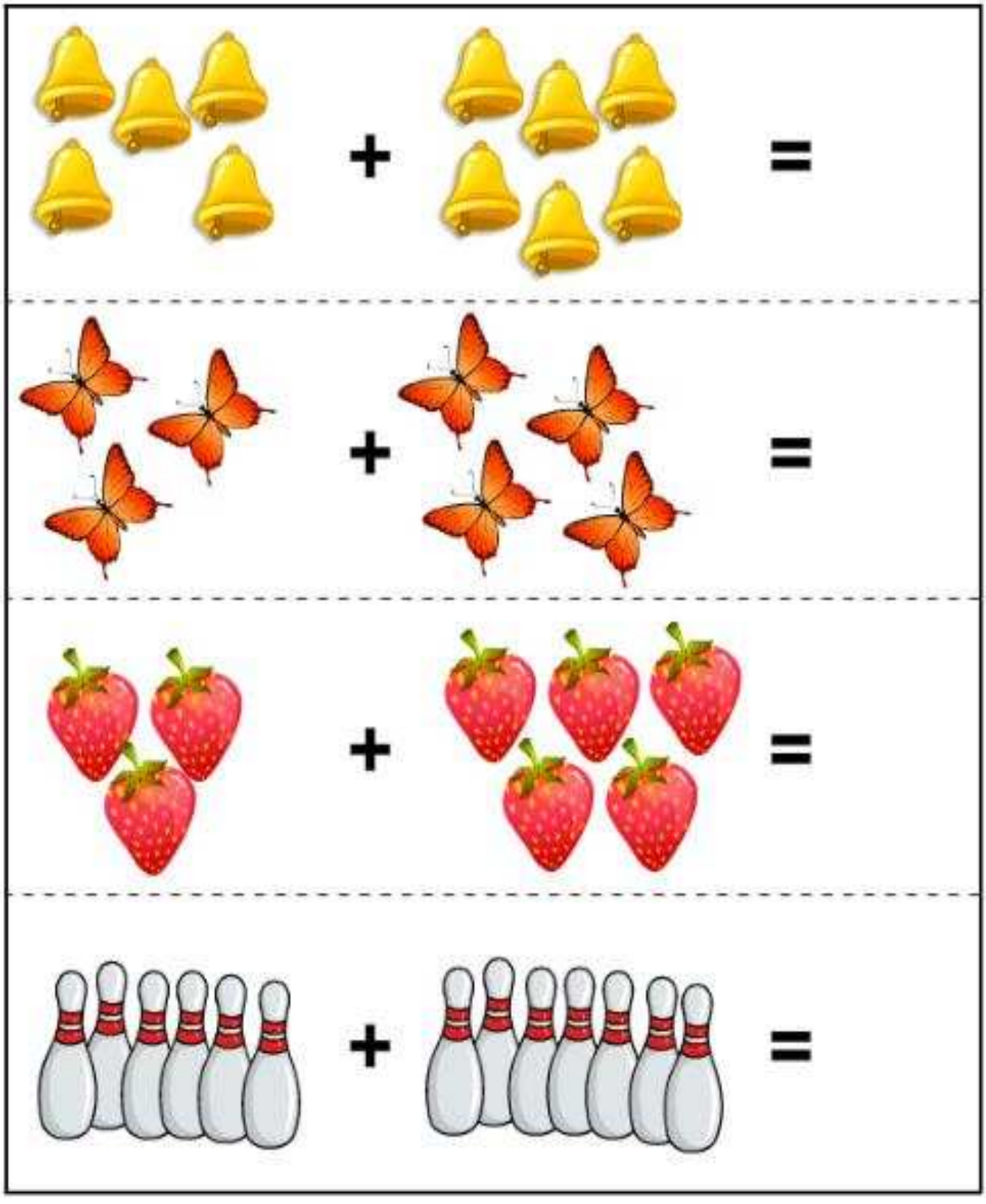
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي



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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

3 + 2 =	4 + 2 =	7 + 1 =	6 + 3 =
6 + 1 =	7 + 4 =	3 + 5 =	9 + 3 =
5 + 2 =	6 + 4 =	9 + 4 =	2 + 0 =

AHMED HETA

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

$1 + 1 =$ ☐	$5 + 2 =$ ☐
$5 + 3 =$ ☐	$3 + 3 =$ ☐
$2 + 4 =$ ☐	$2 + 6 =$ ☐
$1 + 3 =$ ☐	$4 + 5 =$ ☐
$2 + 1 =$ ☐	$5 + 1 =$ ☐
$2 + 2 =$ ☐	$3 + 2 =$ ☐
$6 + 4 =$ ☐	$3 + 6 =$ ☐

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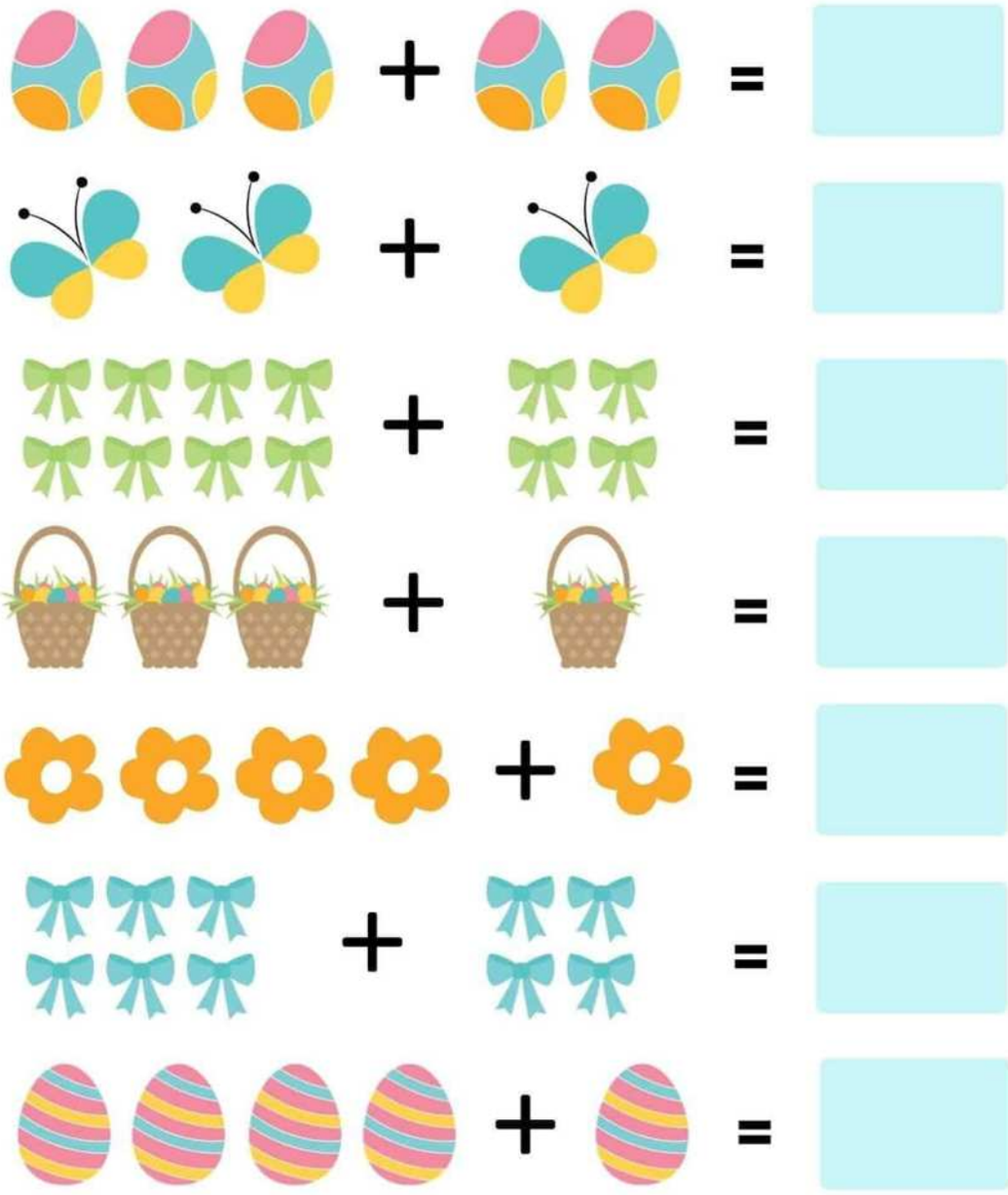
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Easter Addition

Add the Easter items together. Write the sum in the box.



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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

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MATH WORKSHEETS

5 + 8 = ☐	0 + 0 = ☐
4 + 9 = ☐	3 + 7 = ☐
7 + 2 = ☐	9 + 8 = ☐
8 + 8 = ☐	6 + 4 = ☐
9 + 9 = ☐	7 + 7 = ☐
	6 + 5 = ☐

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

ADDING ZERO

3 + 0 = ...

1 + 0 = ...

4 + 0 = ...

7 + 0 = ...

5 + 0 = ...

2 + 0 = ...

11 + 0 = ...

6 + 0 = ...

23 + 0 = ...

98 + 0 = ...

15 + 0 = ...

100 + 0 = ...

27 + 0 = ...

54 + 0 = ...

39 + 0 = ...

64 + 0 = ...

78 + 0 = ...

57 + 0 = ...

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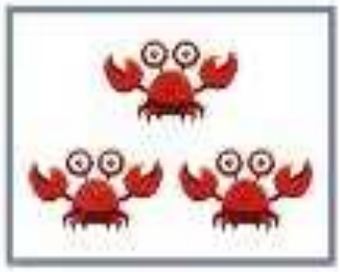
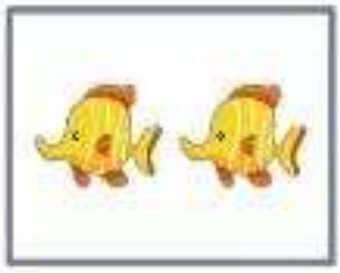
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA



3



4

6

7

2

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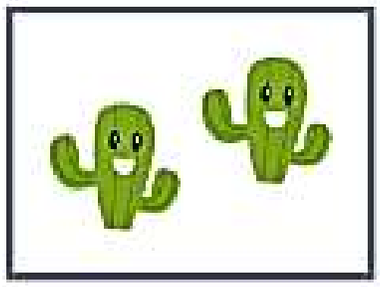
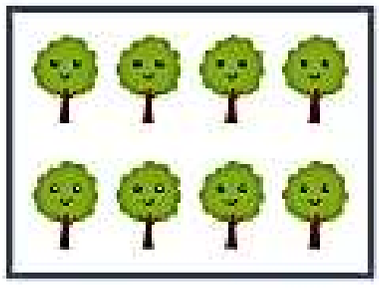
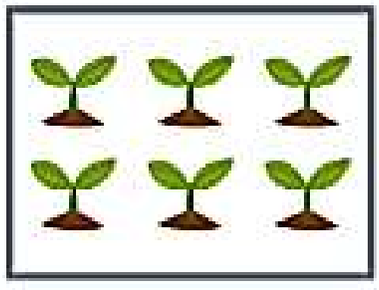
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي







9

3

4

6

7

AHMED HETA

0106582030O

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

7 + 1 = ☐

8 + 1 = ☐

4 + 1 = ☐

6 + 1 = ☐

2 + 1 = ☐

1 + 1 = ☐

9 + 1 = ☐

2 + 1 = ☐

5 + 1 = ☐

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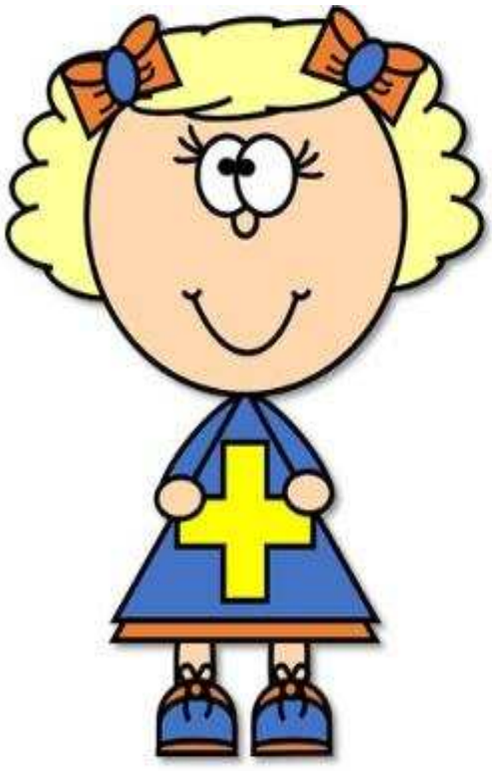
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

teach the doubles.



2+2 5+5

3+3 6+6

4+4 7+7

1 + 1 = ...
2 + 2 = ...
3 + 3 = ...
4 + 4 = ...
5 + 5 = ...
6 + 6 = ...

7 + 7 = ...
8 + 8 = ...
9 + 9 = ...
10 + 10 = ...
11 + 11 = ...
12 + 12 = ...

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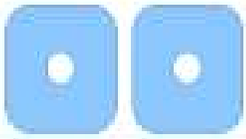
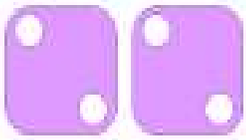
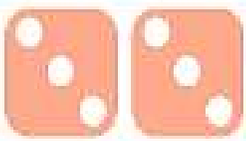
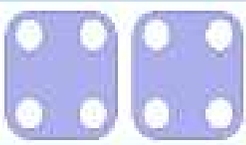
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي


1 + 1 =


2 + 2 =


3 + 3 =

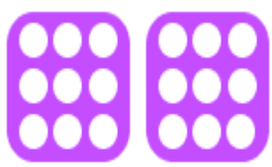

4 + 4 =

5 + 5 =

6 + 6 =

7 + 7 =

8 + 8 =


9 + 9 =

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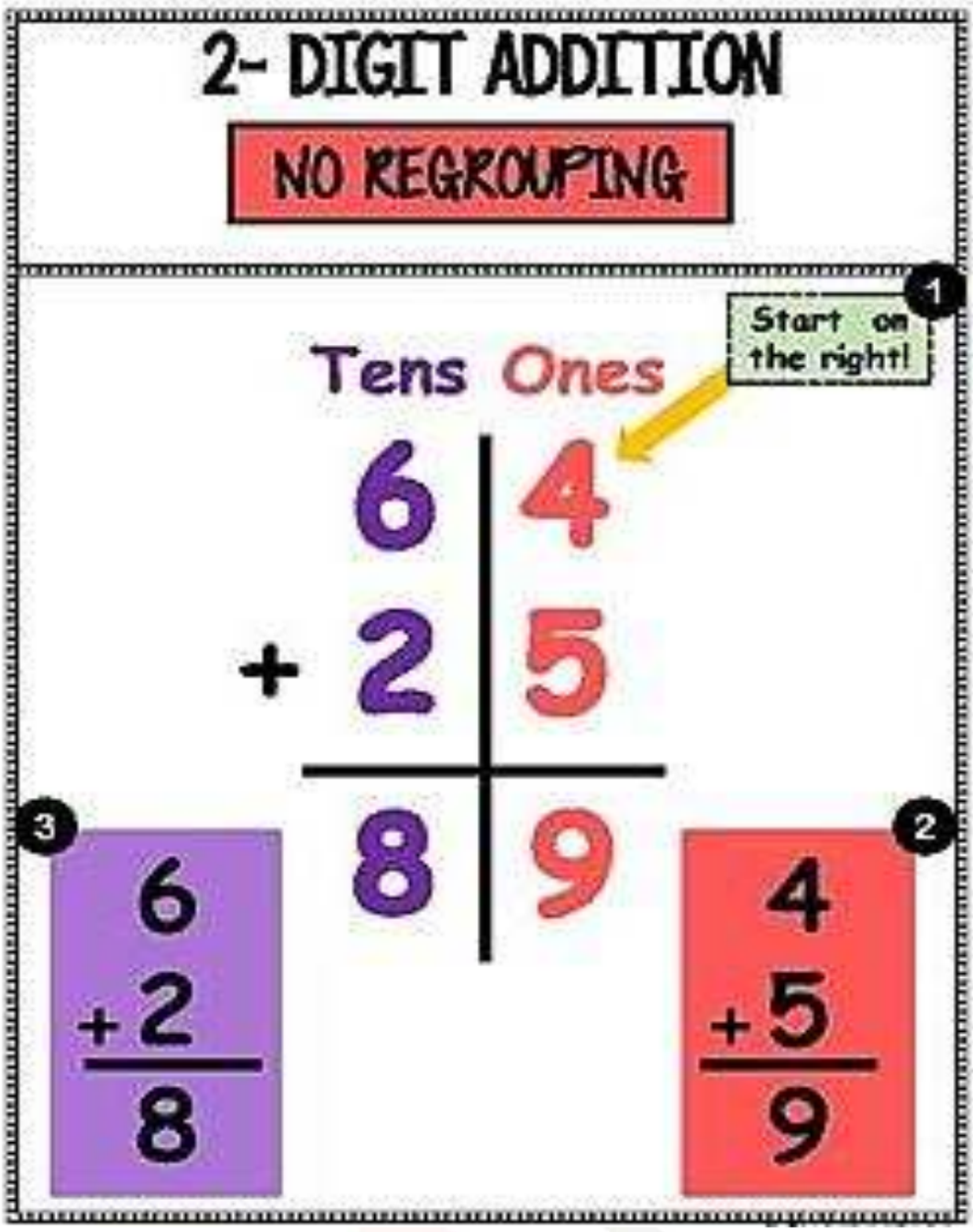
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي



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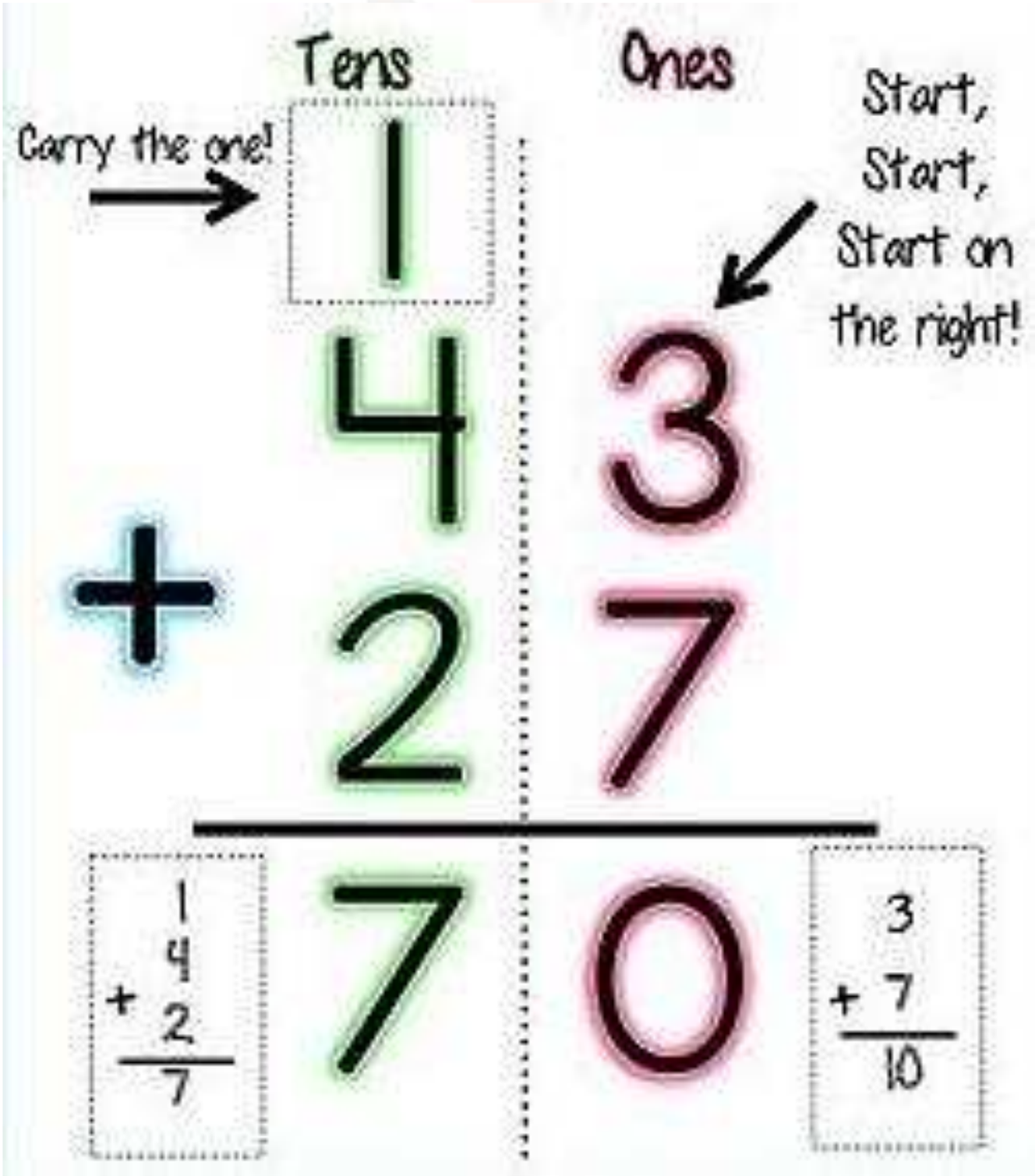
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

11 + 8 = □□	10 + 4 = □□	12 + 5 = □□
13 + 5 = □□	5 + 8 = □□	20 + 2 = □□
20 + 10 = □□	17 + 8 = □□	12 + 12 = □□

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي


Tens
Ones
Carry the one!
Start, Start, Start on the right!
1
4 3
+ 2 7
7 0
1
4
+ 2
7
3
+ 7
10

22 + 16	52 + 24	11 + 11
77 + 22	34 + 65	52 + 34
16 + 23	32 + 16	61 + 21
62 + 30	75 + 12	22 + 67

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

5 + 0 =	3 + 2 =	1 + 4 =	2 + 2 =
3 + 3 =	5 + 2 =	1 + 2 =	6 + 1 =
8 + 2 =	4 + 5 =	2 + 1 =	7 + 2 =

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

1) 55 + 64 = ...

2) 27 + 64 = ...

3) 55 + 64 = ...

4) 30 + 21 = ...

5) 25 + 38 = ...

6) 34 + 39 = ...

7) 23 + 39 = ...

8) 45 + 24 = ...

9) 12 + 18 = ...

10) 73 + 18 = ...

11) 79 + 14 = ...

12) 50 + 14 = ...

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

20 + 14	42 + 54	17 + 32
24 + 25	94 + 5	26 + 33
31 + 23	36 + 42	51 + 31
82 + 10	55 + 14	66 + 23

30 + 10	60 + 20	40 + 40	50 + 30
70 + 30	90 + 10	60 + 50	80 + 40
60 + 60	50 + 50	70 + 70	90 + 90
80 + 60	90 + 70	70 + 50	90 + 80

01065820300

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

Add items on each line and circle(O) the correct number.

+

7
10

+

11
17

+

13
10

+

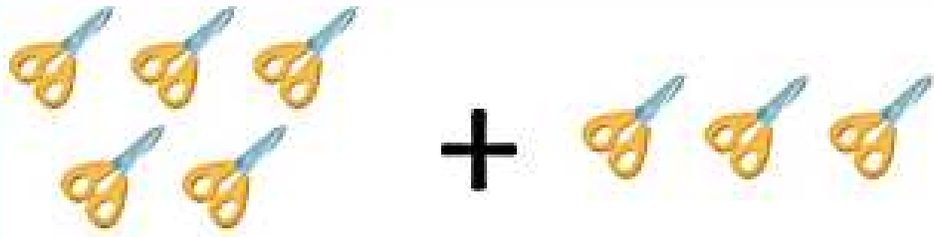
14
17

01065820300

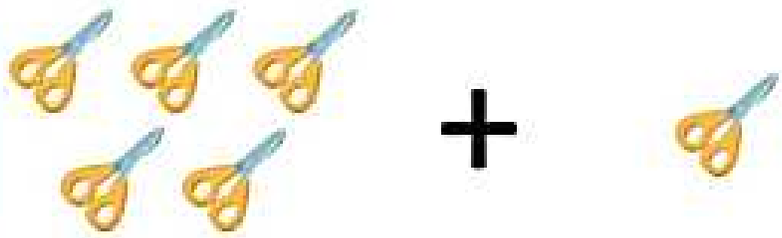
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

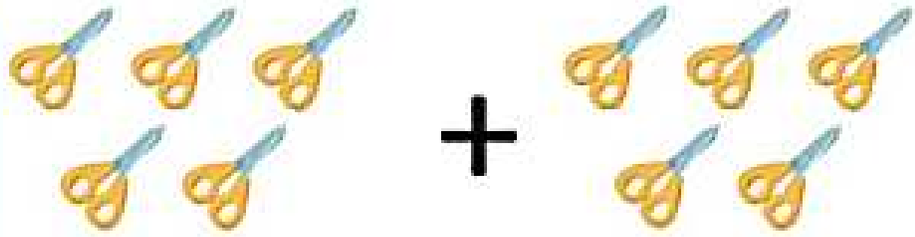
Add items on each line and circle(O) the correct number.



9
8



4
6



10
11

13
11

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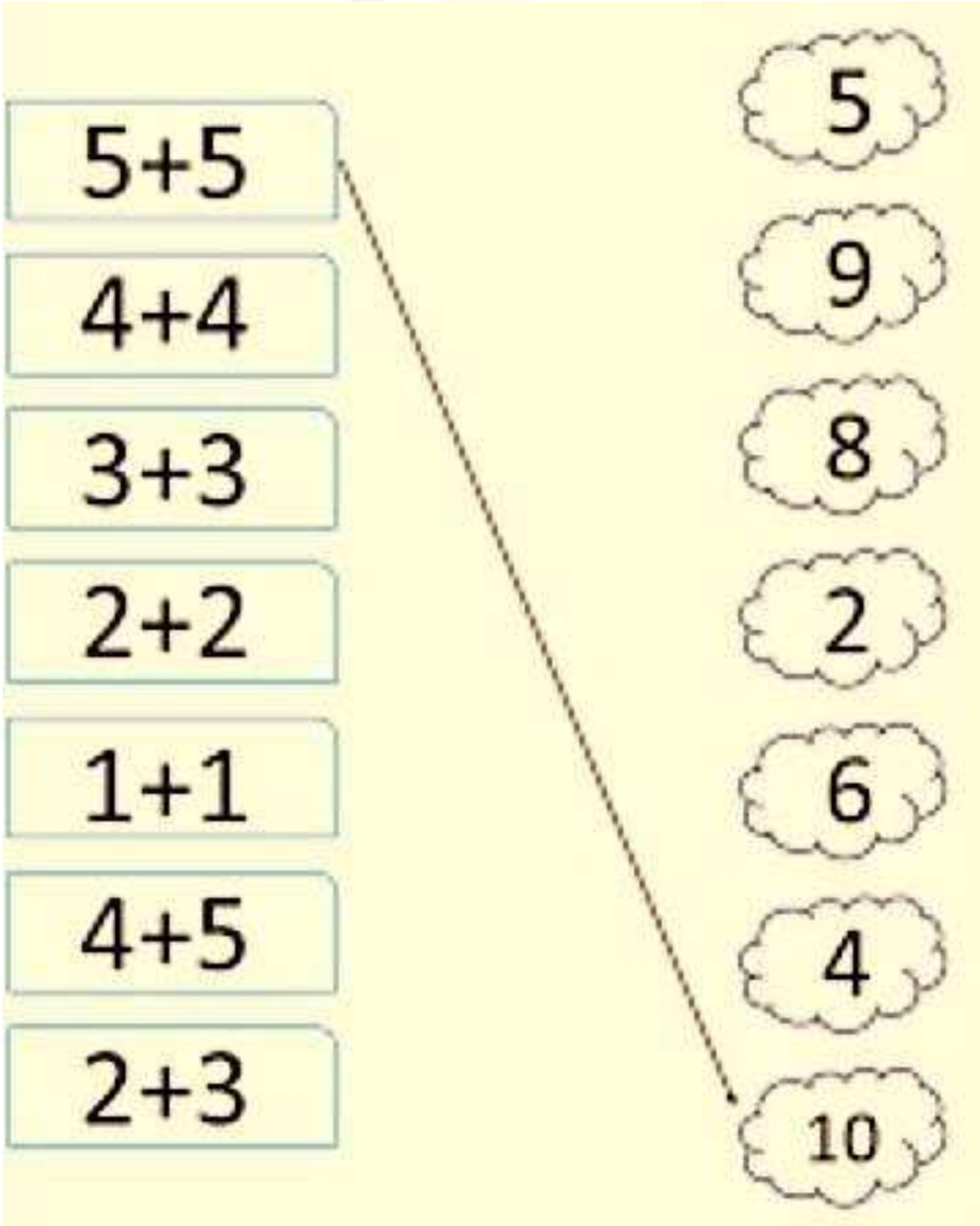
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي



D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

1 + 17 = ☐	4 + 12 = ☐
7 + 12 = ☐	9 + 10 = ☐
8 + 7 = ☐	2 + 9 = ☐
12 + 5 = ☐	10 + 2 = ☐
1 + 12 = ☐	18 + 2 = ☐
6 + 4 = ☐	9 + 8 = ☐
14 + 4 = ☐	2 + 17 = ☐
9 + 3 = ☐	19 + 1 = ☐
1 + 19 = ☐	13 + 1 = ☐

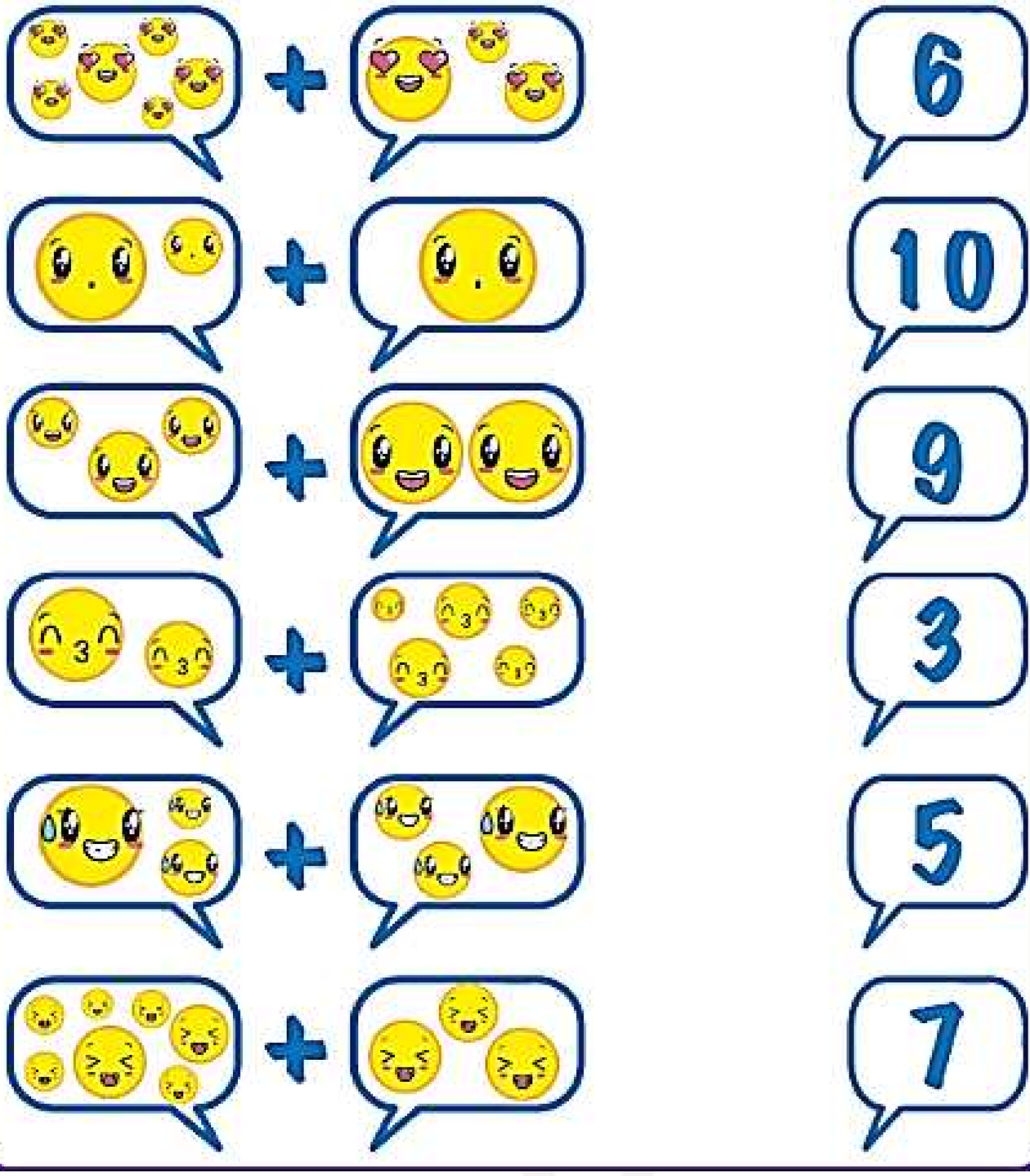
Add the numbers and match to the correct answer.

3 + 5	6
7 + 9	7
6 + 1	8
3 + 3	12
8 + 4	16
9 + 5	14

AHMED HETA

Add and match

Count the emojis and draw a line to match it with correct number.



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Add and Match

Count the fruits and match it with the correct number.

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Essay problems

AHMED HETA

1) judy has 3 oranges , her mother gave him another 2 oranges ,

what the total number of oranges with judy now ?

.....

2)

1 Cat + 1 Cat = _____ cats.

7 Lunchs + 3 Lunchs = _____ Lunchs.

2 Sparrows + 4 Sparrows = _____ Sparrows.

5 Roses + 4 Roses = _____ Roses.

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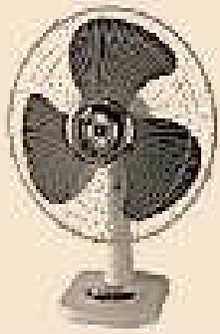
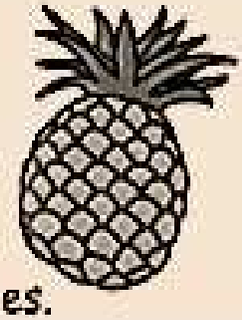
3)

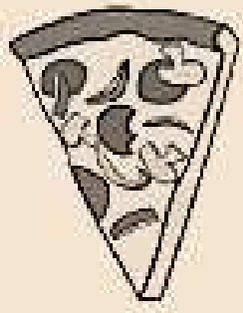
7 plants + 7 plants = _____ plants.



8 fand + 5 fans = _____ fans.



8 pineapples + 4 pineapples = _____ pineapples.



8 pizzas + 7 pizzas = _____ pizzas.

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4)

AHMED HETA

A. Peg got 3 gifts for her birthday.

Meg got 4 gifts for her birthday.

What is the total amount of gifts the girls have altogether?

3 + 4 = ☐ gifts

B. I have 5 books.

I buy 2 more books.

How many books do I have now?

5 + 2 = ☐ books

C. I see 2 red hats.

I see 6 orange hats.

How many hats are there altogether?

2 + 6 = ☐ hats

D. Sid has 4 cars.

Cam has 1 car.

How many cars do they have in all?

4 + 1 = ☐ cars

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Part 3: Subtraction

The first strategy: Counting back

1) 10, 9, 8, ... , ... , ... , ... , ... , ... , ...

2) 11, 10, ... , ... , ... , ... , ... , ... , ...

3) 15, 14 , ... , ... , ... , ... , ... , ... , ...

3) 24, 23, ... , ... , ... , ... , ... , ... , ...

4) 36, 35, ... , ... , ... , ... , ... , ... , ...

5) 40, 39, ... , ... , ... , ... , ... , ... , ...

6) 52, 51, ... , ... , ... , ... , ... , ... , ...

7) 64, 63, ... , ... , ... , ... , ... , ... , ...

8) 73, 72, ... , ... , ... , ... , ... , ... , ...

9) 34, 33, ... , ... , ... , ... , ... , ... , ...

10) 25, 24, ... , ... , ... , ... , ... , ... , ...

11) 68, 67, ... , ... , ... , ... , ... , ... , ...

12) 78, 77, ... , ... , ... , ... , ... , ... , ...

13) 88, 87, ... , ... , ... , ... , ... , ... , ...

14) 90, 89, ... , ... , ... , ... , ... , ... , ...

15) 98, 97, ... , ... , ... , ... , ... , ... , ...

16) 100, 99, ... , ... , ... , ... , ... , ... , ...

17) 102, 101, 100, ... , ... , ... , ... , ... , ... , ...

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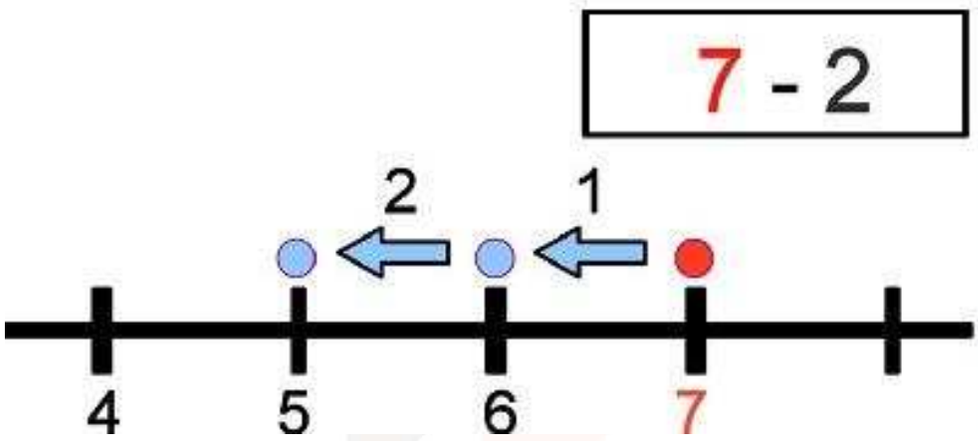
Example: if we want to subtract 2 from 7

We will start with 7 and counting back 2 steps

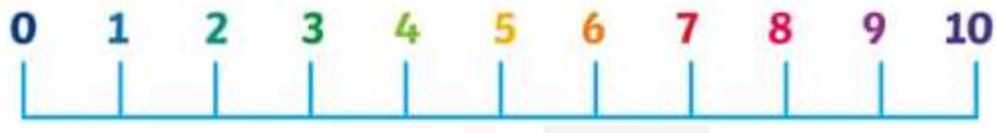


So, 7 – 2 = 5

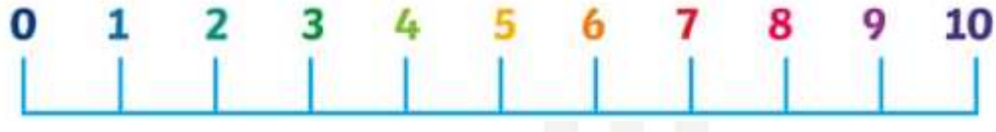
---

6 – 4 = ……

5 – 3 = ……



9 – 5 = ……



10 – 4 = ……

8 – 1 = ……

7 – 6 = ……

2 – 1 = ……

6 – 3 = …..

5 – 2 = ….

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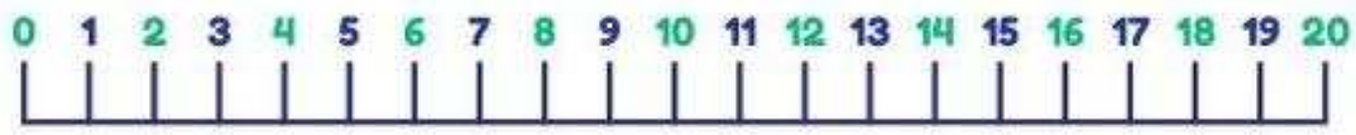
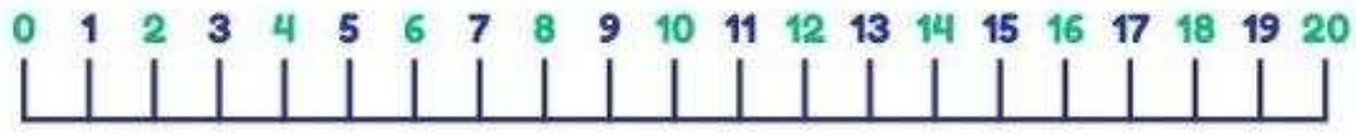
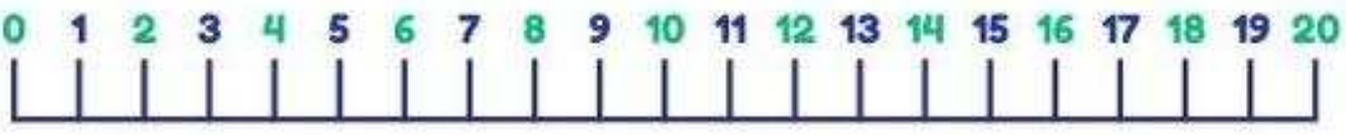
12 – 3 = ...



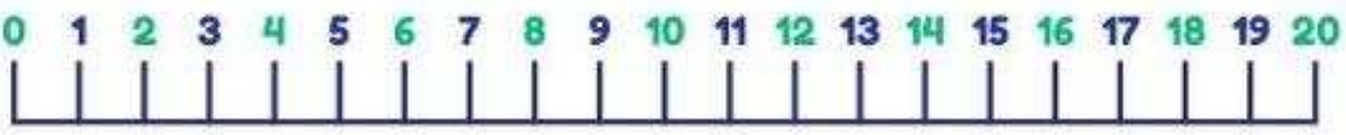
15 – 5 = ...



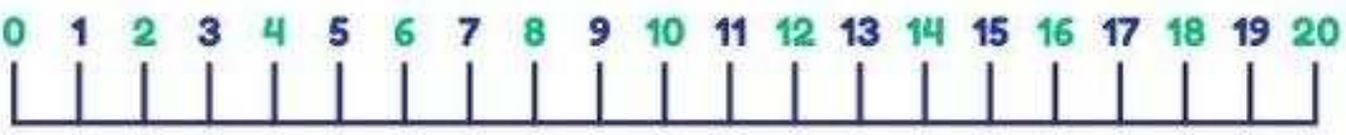
18 – 10 = ...



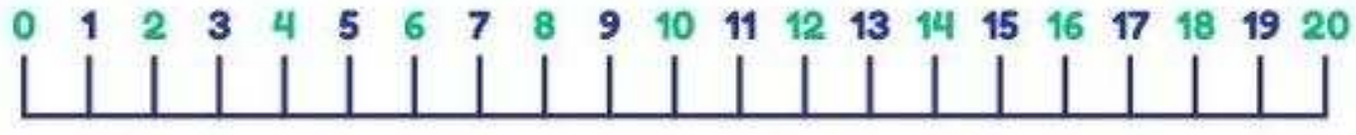
12 – 7 = ...



17 – 12 =.....



18 – 9 = ...



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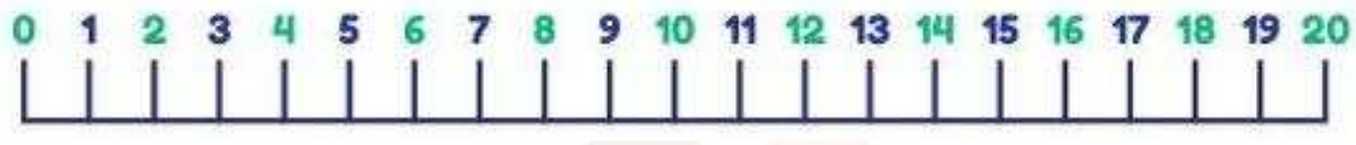
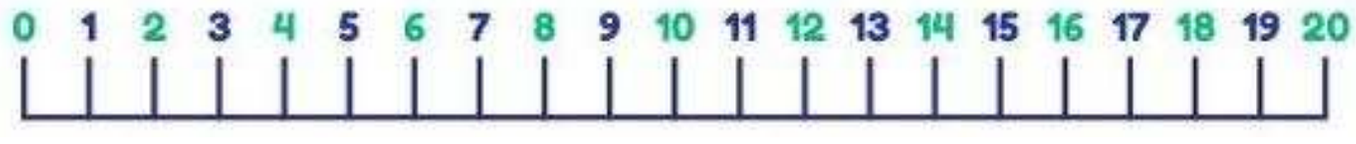
16 – 5 = ……

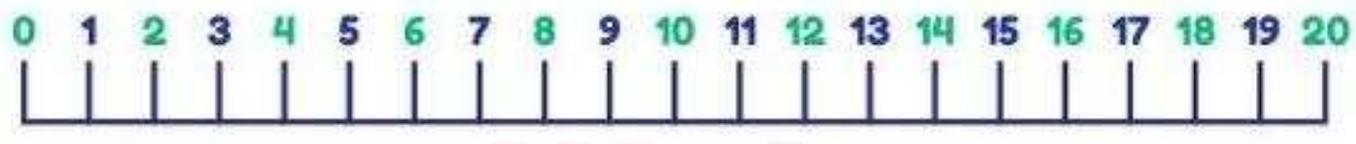
19 – 3 = ……



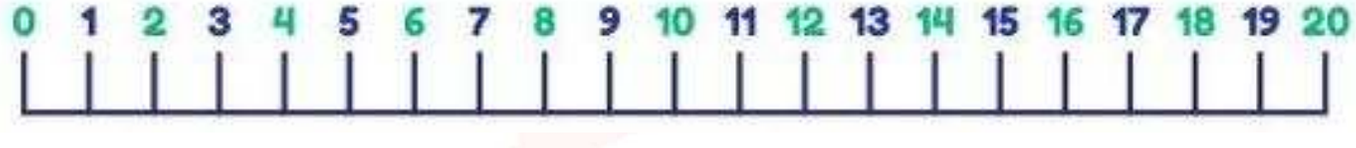
20 – 10 = ……



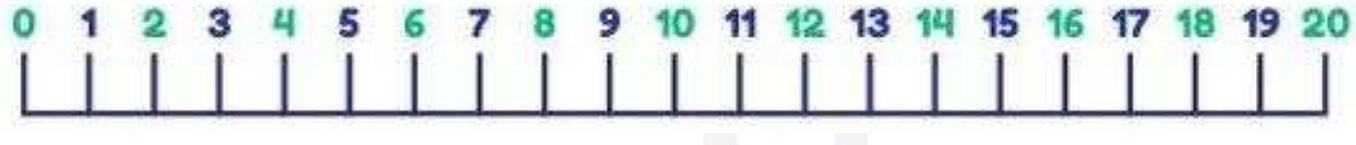
20 – 12 = ……



14 – 9 = …….



17 – 10 = ……



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9 – 3 =			11 – 1 =		
10 – 6 =			7 – 3 =		
7 – 1 =			9 – 1 =		
8 – 4 =			14 – 7 =		
11 – 5 =			14 – 9 =		
12 – 4 =			20 – 1 =		
18 – 3 =			20 – 8 =		
19 – 10 =			14 – 8 =		
8 – 7 =			12 – 10 =		
8 – 3 =			6 – 4 =		
4 – 2 =			2 – 1 =		
9 – 8 =			13 – 1 =		
20 – 10 =			7 – 5 =		
13 – 9 =			3 – 2 =		
6 – 3 =			16 – 9 =		

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3 − 2 =	4 − 2 =	7 − 1 =	6 − 3 =
6 − 1 =	7 − 4 =	3 − 1 =	9 − 3 =
5 − 2 =	6 − 1 =	9 − 4 =	2 − 0 =

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The second strategy: Count from smaller to the bigger

Example: 7 – 2 = ...

So, we will count from 2 to 7 , and count the Steps

After 2 ..... 3 , 4 , 5 , 6 , 7

Five steps so the result will be 5

Let's try

9 – 2 =			17 – 9 =	
10 – 5 =			14 – 11 =	
13 – 7 =			17 – 10 =	
12 – 6 =			18 – 11=	
16 – 9 =			19 – 12 =	

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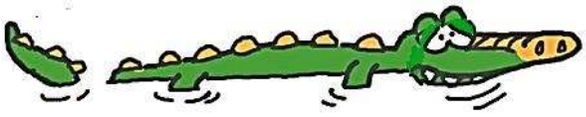
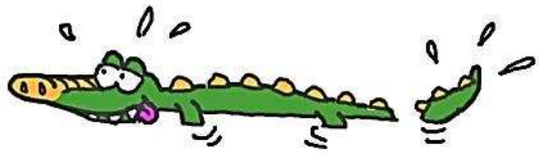
SUBTRACTING ZERO AND ALL

$3 - 0 = 3$

$3 - 3 = 0$





$6 - 0 =$	$4 - 0 =$
$9 - 0 =$	$2 - 0 =$
$1 - 0 =$	$3 - 0 =$

$8 - 0 =$	$11 - 0 =$	$7 - 0 =$	$5 - 0 =$

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1 – 1 =			1 – 0 =	
2 – 2 =			2 – 0 =	
3 – 3 =			3 – 0 =	
4 – 4 =			4 – 0 =	
5 – 5 =			5 – 0 =	
6 – 6 =			6 – 0 =	
7 – 7 =			7 – 0 =	
8 – 8 =			8 – 0 =	
9 – 9 =			9 – 0 =	
10 – 10 =			10 – 0 =	
11 – 11 =			11 – 0 =	
12 – 12 =			12 – 0 =	

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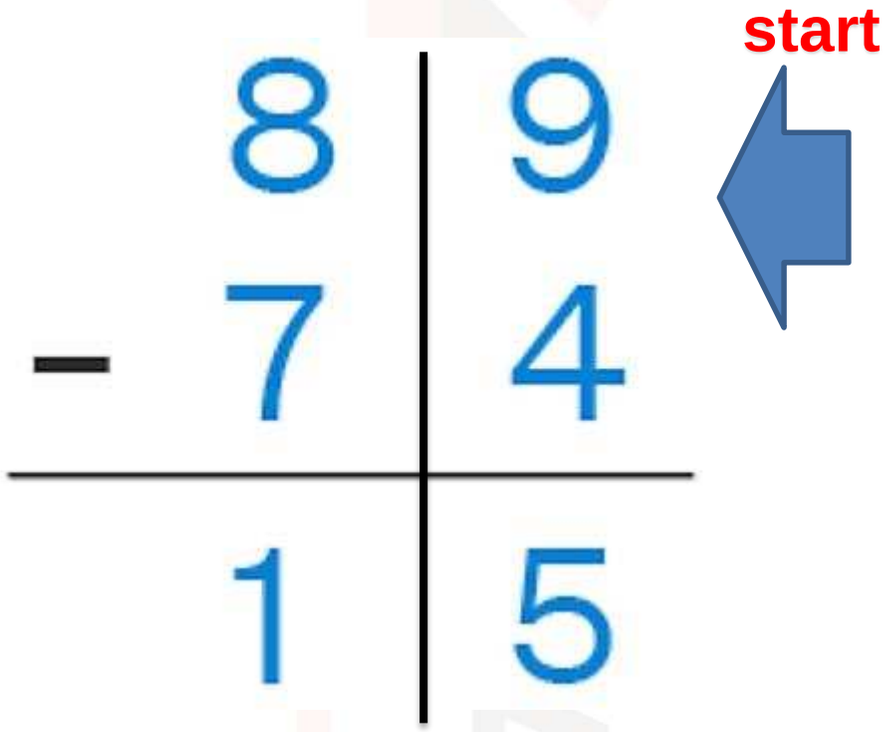
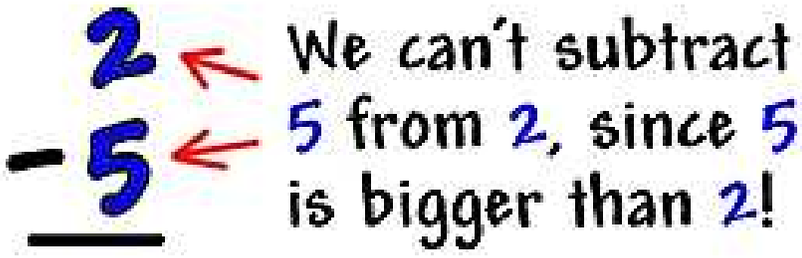
If we want to subtract 2-digits of 2-digits

- We will start from right



We can't subtract the bigger from the smaller



AHMED HETA

Borrow

$$\begin{array}{r} 7\ 16 \\ \cancel{8}\ \cancel{6} \\ -\ 3\ 8 \\ \hline 4\ 8 \end{array}$$

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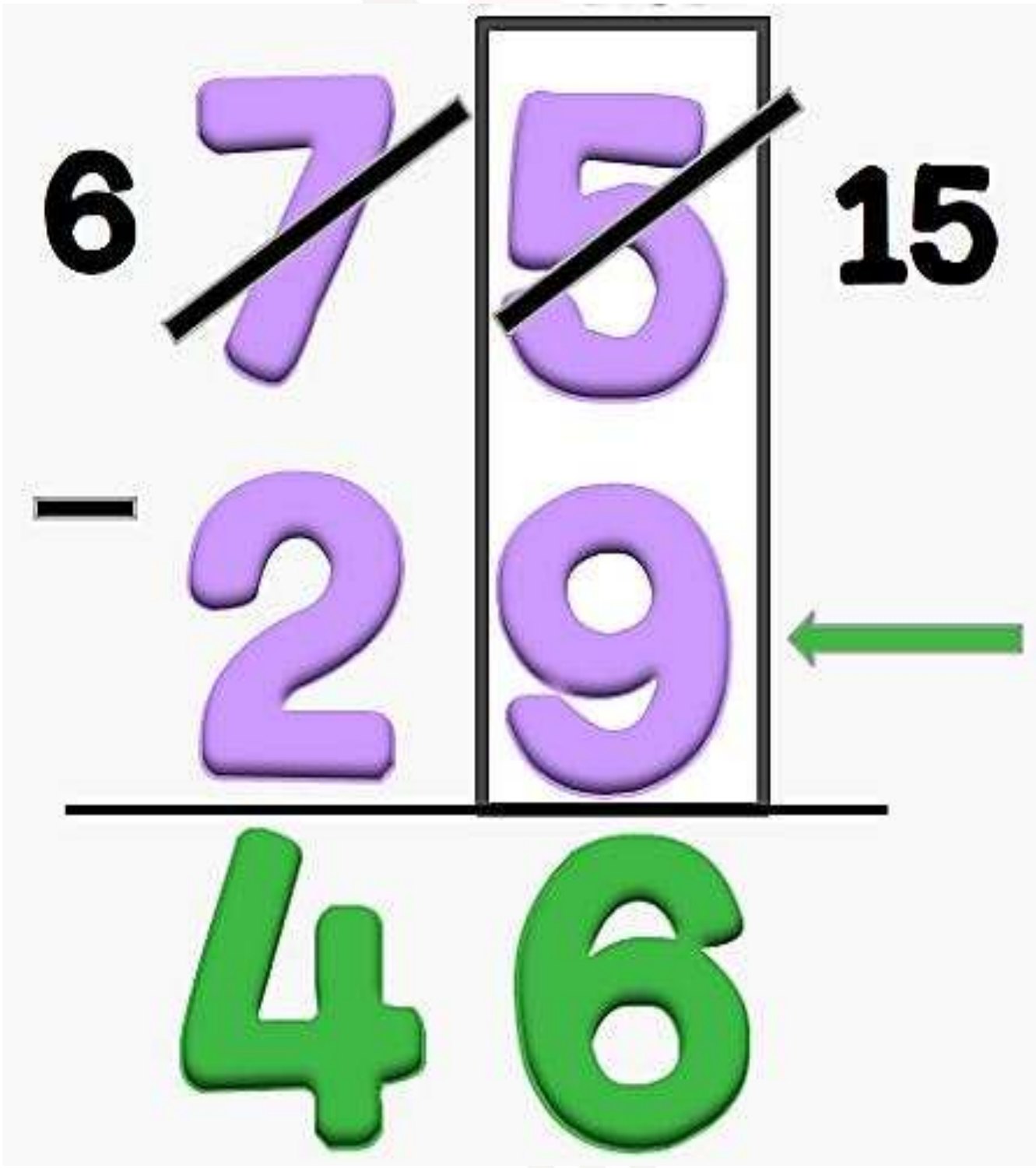

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AHMED HETA

LET'S SUBTRACT!

29 - 14	35 - 23	76 - 54
33 - 22	65 - 43	97 - 45
85 - 65	53 - 42	90 - 50
59 - 7	34 - 21	68 - 55

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84 − 36	51 − 34	75 − 19	48 − 19
45 − 19	65 − 27	74 − 38	41 − 19
50 − 26	89 − 38	74 − 26	75 − 16

AHMED HETA

$4-2=$ ☐

$3-1=$ ☐

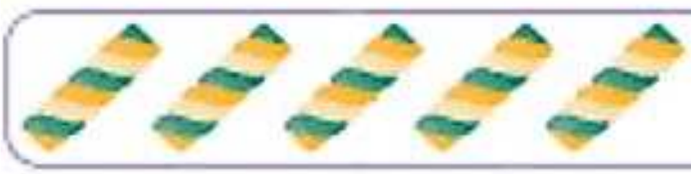
$5-3=$ ☐

$2-1=$ ☐

$5-2=$ ☐

$3-3=$ ☐

4 - 2 = ☐



5 - 1 = ☐

6 - 3 = ☐

5 - 3 = ☐

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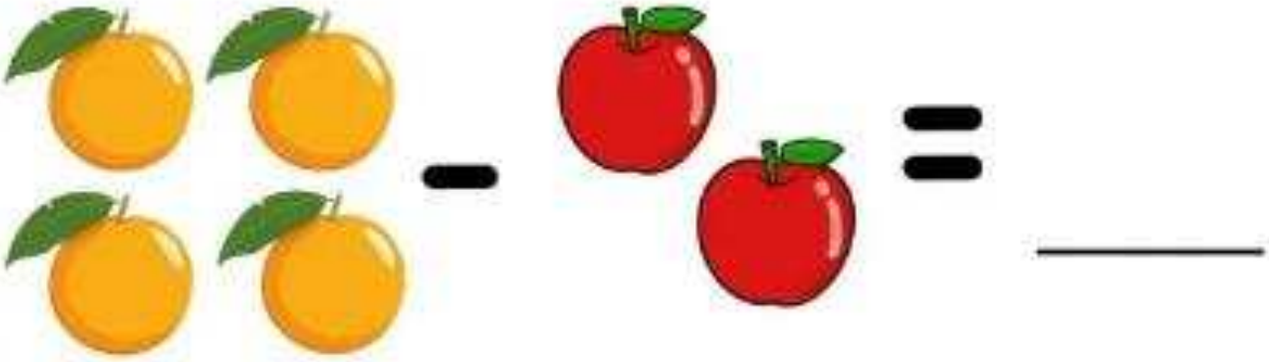

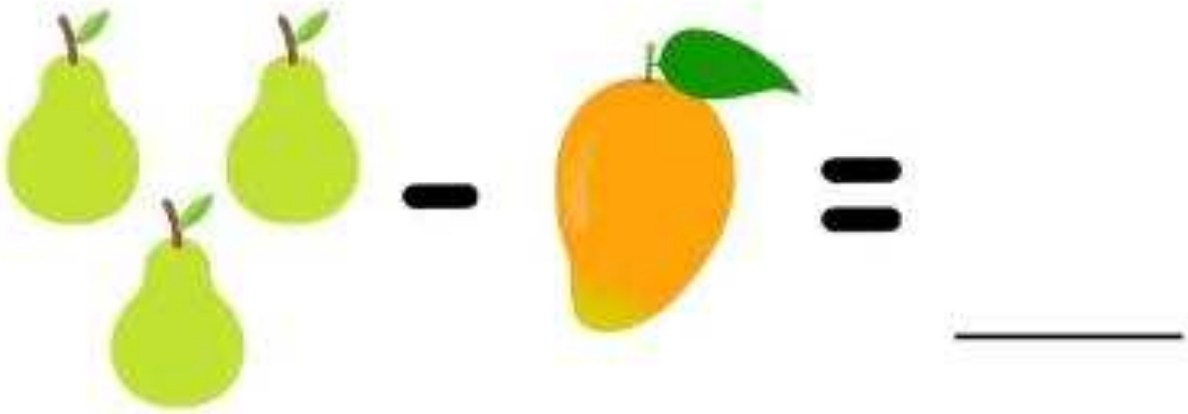

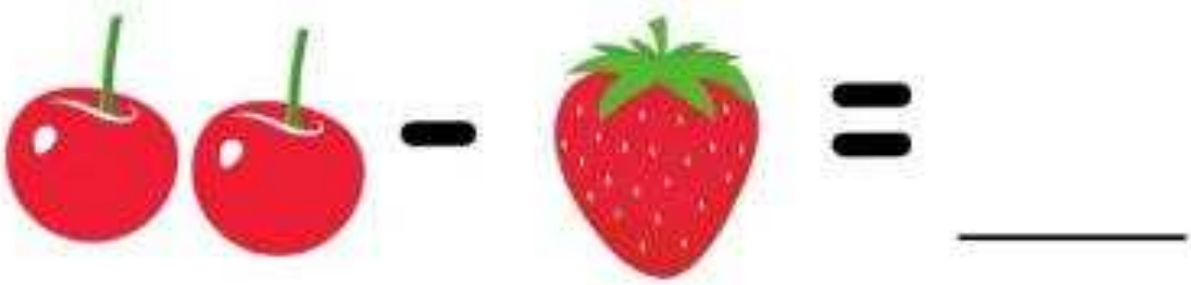

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Subtraction

Let's subtract the numbers!

4 - 2 = ☐

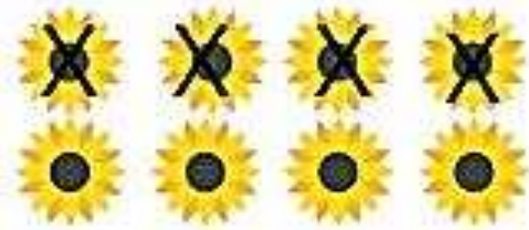
6 - 3 = ☐

7 - 2 = ☐

4 - 3 = ☐

7 - 4 = ☐

6 - 4 = ☐



8 - 4 = ☐

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Subtraction

Let's subtract the numbers!

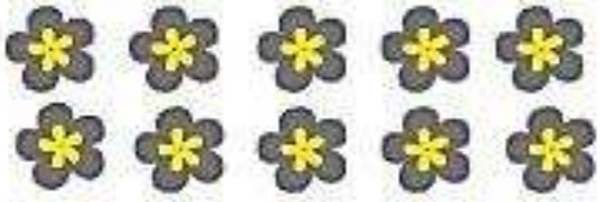
7 - 2 = 5

6 - 3 =

7 - 5 =

6 - 4 =

9 - 7 =



10 - 4 =

5 - 4 =

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SUBTRACTION

Find the difference.

29 − 13 =	62 − 22 =	91 − 34 =
65 − 43 =	80 − 67 =	56 − 23 =
78 − 33 =	61 − 26 =	87 − 44 =

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9 - 2 = _____	3 - 2 = _____	10 - 8 = _____
6 - 5 = _____	10 - 5 = _____	16 - 9 = _____
16 - 2 = _____	12 - 3 = _____	4 - 0 = _____
2 - 0 = _____	11 - 9 = _____	17 - 4 = _____
12 - 4 = _____	10 - 6 = _____	18 - 9 = _____
8 - 5 = _____	5 - 4 = _____	13 - 9 = _____
10 - 9 = _____	17 - 8 = _____	20 - 4 = _____
9 - 7 = _____	13 - 7 = _____	6 - 5 = _____
14 - 3 = _____	13 - 6 = _____	15- 3 = _____
11 - 9 = _____	14 - 7 = _____	18 - 0 = _____
17 - 9 = _____	19 - 9 = _____	11 - 6 = _____
12 - 1 = _____	19 - 12 = _____	18 - 12 = _____
6 - 6 = _____	6 - 3 = _____	13 - 6 = _____
8 - 7 = _____	14 - 4 = _____	18 - 17 = _____
13 - 2 = _____	20 - 5 = _____	19 - 14 = _____

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or

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3	+	7	=	10		1		1	=	2
4	_	1	=	3		7		2	=	5
5	+	3	=	8		6		1	=	5
6		6	=	12		13		10	=	3
8		2	=	6		1		8	=	9
13		5	=	8		20		8	=	12
6		1	=	5		4		4	=	0
2		2	=	4		10		10	=	0
9		9	=	0		7		2	=	9
4		5	=	9		11		8	=	19
10		5	=	5		10		3	=	7
12		8	=	4		11		3	=	14
17		1	=	18		16		5	=	21
7		7	=	14		7		6	=	1
20		10	=	10		9		9	=	18

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Essay problems

1)	There are 4 . 3 swim away. How many are left? _____	
2)	I have 6 . I eat 2 . How many do I have left? _____	
3)	Sally has 5 . Frazer has 2 . How many more does Sally have? _____	
4)	There are 8 . 4 fly away. How many are left? _____	
5)	Captain has 7 . He gives 3 away. What is 7 minus 3? _____	
6)	I make 9 . 2 get knocked down. How many are left? _____	

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1)	I see 6 . 3 hop away. How many are left? _____	
2)	Bert has 8 . Bob has 4 . What is the difference? _____	
3)	There are 7 . 4 pop. How many are left? _____	
4)	I pick 9 . I eat 2 of them. How many are left? _____	
5)	Tyger has 5 . Frazer has 4 . How many more does Tyger have? _____	
6)	There are 10 . 3 hop away. What is 10 minus 3? _____	

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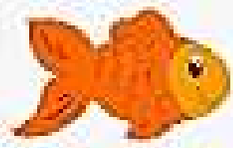
There are 4 frogs in the pond. Then 3 frogs hopped away. How many frogs are **left**?

□ ○ □ = □

frogs

Sally saw 7 fish. Then 5 fish swam away. How many fish were **left**?

□ ○ □ = □



fish

I made 9 sandcastles. Then 6 sandcastles got knocked over. How many sandcastles are **left**?

□ ○ □ = □

sandcastles

I had 8 cookies. My mom ate 5 cookies. How many cookies do I have **left**?

□ ○ □ = □

cookies

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Part 4: Big numbers

AHMED HETA

What come after 100 ?

101	102	103	104	…	106	…	…	109	110
111	112	113	…	…	…	117	118	…	…
121	…	…	…	125	…	….	…	129	130
131	…	…	…	…	…	…	138	…	…
141	142	143	144	145	…	…	…	…	150
…	…	153	154	…	…	…	…	…	160
…	…	…	…	…	…	…	…	169	…
171	…	…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…	…	190
191	192	…	…	…	…	197	198	199	200

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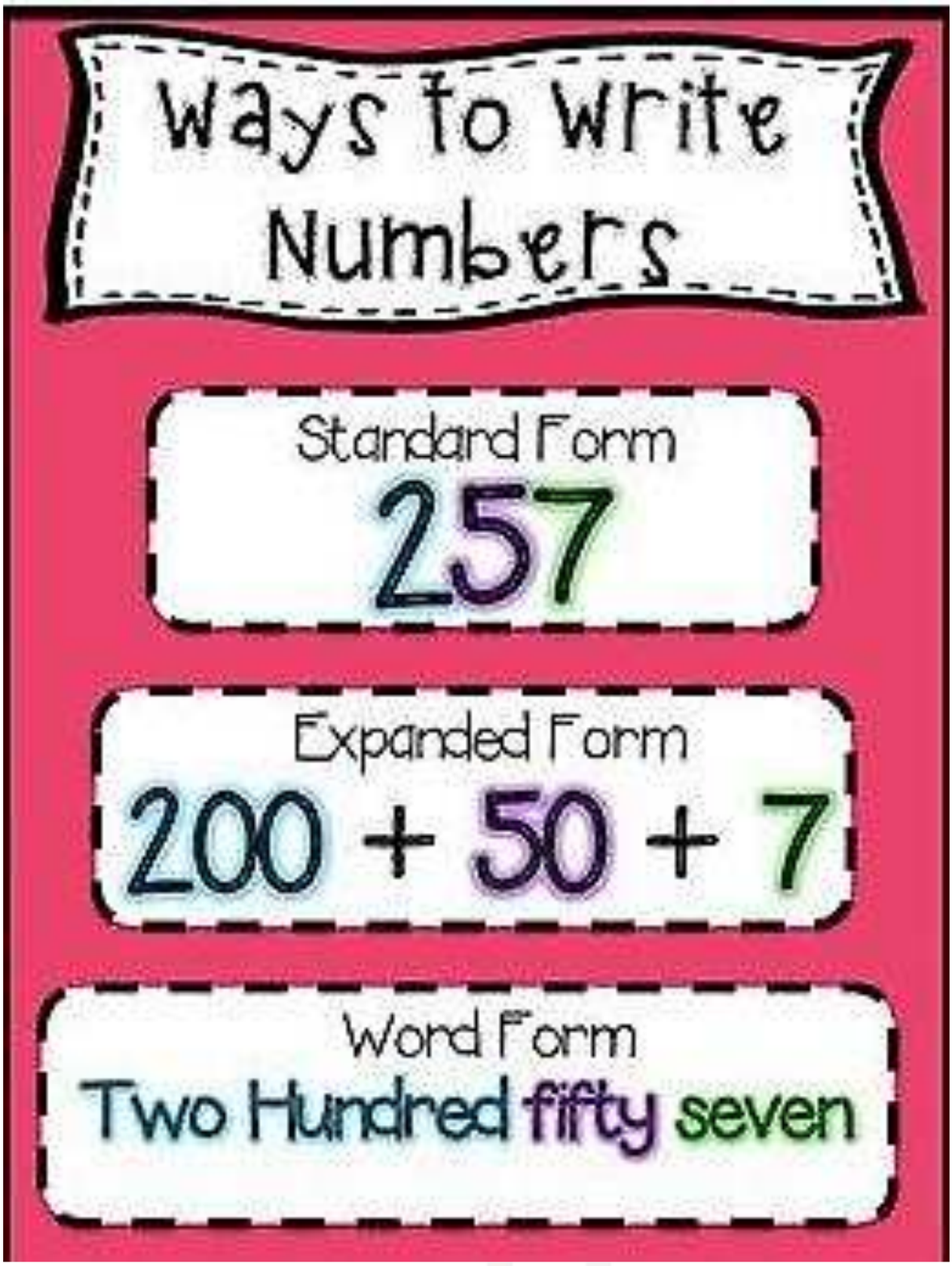
201	202	203	…	…	…	207	208	…	210
211	212	213	214	…	…	…	…	219	…
…	…	…	…	…	…	227	228	…	230
…	…	233	234	235	236	237	…	…	…
…	…	…	…	…	…	247	248	…	250
…	…	…	…	…	…	…	…	…	260
261	262	263	…	…	266	267	…	269	…
…	272	…	274	275	276	…	…	…	…
281	282	283	284	285	286	…	…	…	290
291	292	…	…	…	…	…	…	299	300

301	...	...	...	...	...	...	...	...	310
...	...	...	...	...	...	...	...	...	320
...	...	...	...	325	...	...	...	...	...
...	...	...	...	...	...	...	338	...	...
341	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	359	...
...	...	363	...	...	...	...	...	...	370
...	...	...	...	...	...	...	...	...	380
...	382	383	384	385	...	...	...	...	390
391	392	393	394	...	...	...	398	399	400

401	...	...	...	...	...	...	...	...	410
...	...	...	...	...	...	...	...	...	420
...	...	...	...	...	...	...	...	...	430
...	...	...	...	...	...	...	...	...	440
...	...	...	...	...	...	...	...	...	450
...	...	...	...	...	...	...	...	...	460
...	...	...	...	...	...	...	...	...	470
...	...	...	...	...	...	...	...	...	480
...	...	...	...	...	...	...	...	...	490
...	...	...	...	...	...	...	...	...	500



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AHMED HETA

Write the following numbers in word form

5 : five

12 : .....

43 : .....

67 : .....

40 : .....

100 : .....

110 : one hundred ten

120 : .....

127 : .....

140 : .....

159 : one hundred fifty nine

188 : .....

206 : .....

210 : .....

302 : .....

307 : .....

800 : .....

709 : .....

615 : .....

270 : .....

6 : .....

24 : twenty four

35 : .....

78 : .....

80 : .....

103 : .....

112 : .....

126 : .....

130 : .....

155 : .....

161 : .....

200 : .....

218 : two hundred eighteen

209 : .....

327 : .....

311 : .....

801 : .....

704 : seven hundred four

900 : .....

345 : .....

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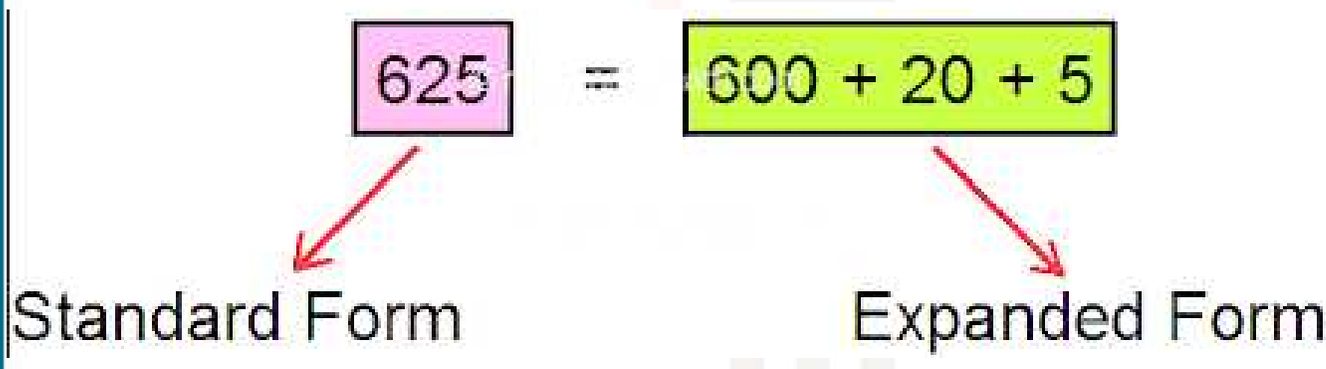
AHMED HETA

Write the following numbers in standard form

35 = 30 + 5
123 = 100 + 20 + 3
674 = ...
421 = ...
247 = ...
401 = 400 + 1
795 = ...
88 = ...
532 = ...
666 = ...
121 = ...
770 = ...
809 = ...

23 = ...
435 =.....
234 = ...
957 =.....
356 =.....
520 =.....
541 =.....
72 = ...
953 =.....
880 = 800 + 80
353 = ...
110 =.....
745 =.....



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901	902	903	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	997	998	999	1000

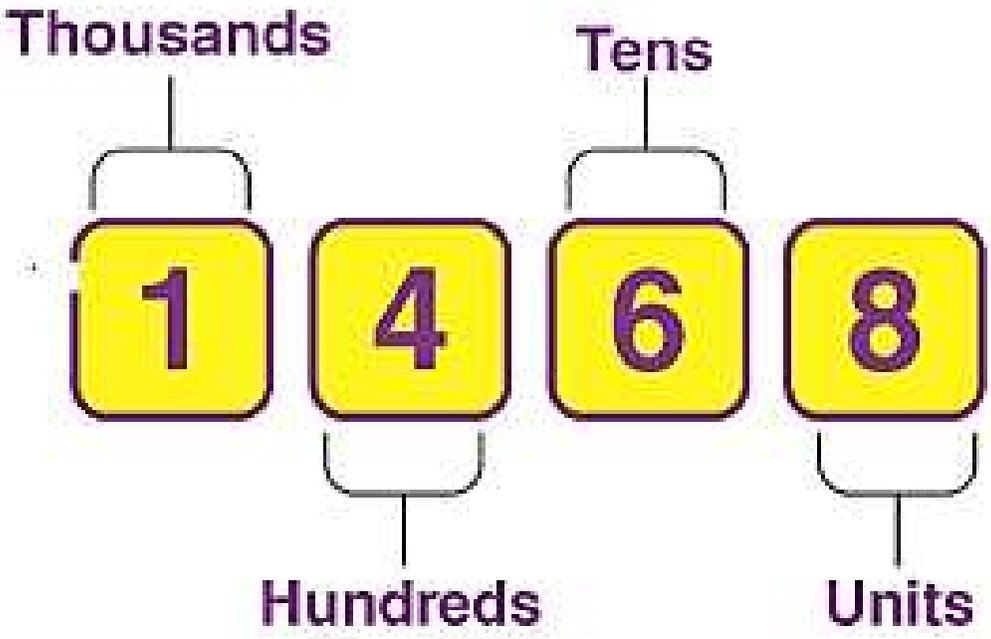
1	10	100	1000
one	Ten	Hundred	Thousand
2	…	…	2000
…	…	Two Hundred	Two thousand
3	…	…	3000
…	…	…	Three thousand
…	…	…	…
Four	…	…	Four thousand
5	…	…	…
…	…	Five Hundred	…

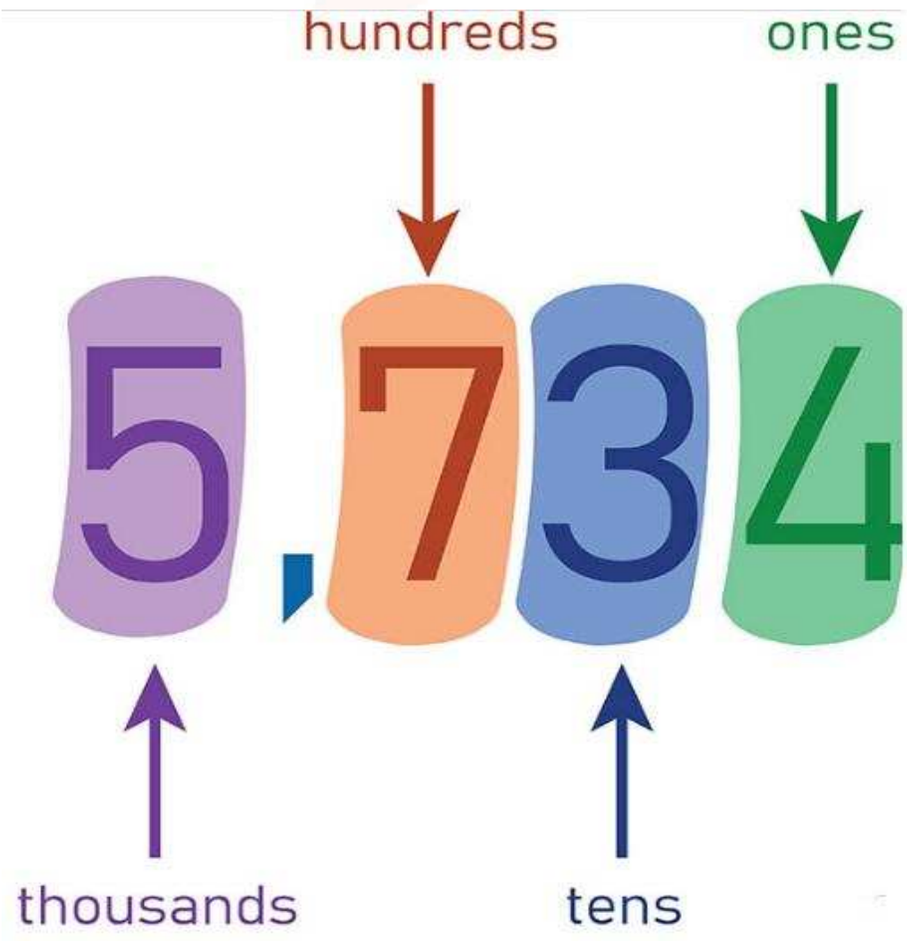
...	...	...	...
...	sixty	...	...

...	...	...	7000
...	...	...	...

8	...	...	...
...	...	...	...

9	...	...	...
...	...	...	...


Thousands
Tens
1
4
6
8
Hundreds
Units


hundreds
ones
5
,
7
3
4
thousands
tens

1538	1	5	3	8
	Thousands	Hundred	Tens	Ones
2859	2	8	...	...
	...	...	...	Ones
5632	...	...	...	...
	...	...	...	...
8672	...	...	...	...
	...	...	...	...
6020	6	0	2	0
	Thousands	Hundred	Tens	Ones
8630	...	...	...	...
	...	...	...	...
4344	...	...	...	...
	...	...	...	...
1275	...	...	...	...
	...	...	...	...

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

Name: _____

Where's My Place?

Directions: Read the numbers below. Look at the underlined digit. What place is it in? Write H (hundreds), T (tens), or O (ones) for the correct place.

739	294	714	859
249	957	252	562
674	756	486	456
976	502	980	173
475	483	967	348

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

Place Value

Find the correct place value of the number

1. In 490, in which place is the 0?
   ○ Ones ○ Tens ○ Hundreds
2. In 630, in which place is the 3?
   ○ Ones ○ Tens ○ Hundreds
3. In 684, in which place is the 4?
   ○ Ones ○ Tens ○ Hundreds
4. In 102, in which place is the 0?
   ○ Ones ○ Tens ○ Hundreds
5. In 710, in which place is the 7?
   ○ Ones ○ Tens ○ Hundreds
5. In 474, in which place is the 7?
   ○ Ones ○ Tens ○ Hundreds
7. In 925, in which place is the 9?
   ○ Ones ○ Tens ○ Hundreds
3. In 357, in which place is the 5?
   ○ Ones ○ Tens ○ Hundreds
9. In 830, in which place is the 8?
   ○ Ones ○ Tens ○ Hundreds
10. In 547, in which place is the 4?
    ○ Ones ○ Tens ○ Hundreds

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

53	=	5	tens	+	3	ones
_____	=	7	tens	+	5	ones
_____	=	8	tens	+	8	ones
_____	=	3	tens	+	2	ones
_____	=	4	tens	+	0	ones
_____	=	2	tens	+	8	ones
_____	=	9	tens	+	1	ones
_____	=	1	tens	+	2	ones
_____	=	5	tens	+	9	ones
_____	=	6	tens	+	4	ones

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Place Value

Read And Answer The Following

◯	Tens +	◯	Ones	=	50
◯	Tens +	◯	Ones	=	98
◯	Tens +	◯	Ones	=	48
◯	Tens +	◯	Ones	=	41
◯	Tens +	◯	Ones	=	61
◯	Tens +	◯	Ones	=	79
◯	Tens +	◯	Ones	=	81
◯	Tens +	◯	Ones	=	19
◯	Tens +	◯	Ones	=	79
◯	Tens +	◯	Ones	=	75

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Place Value

How many ten and ones are there?

23 = tens...2...ones...3...

40 = tens.....ones.....

94 = tens.....ones.....

17 = tens.....ones.....

68 = tens.....ones.....

10 = tens.....ones.....

44 = tens.....ones.....

52 = tens.....ones.....

88 = tens.....ones.....

Place Value

Read And Answer The Following

9,931 = ( ) thousands + ( ) hundreds + ( ) tens + ( ) ones

9,398 = ( ) thousands + ( ) hundreds + ( ) tens + ( ) ones

8,209 = ( ) thousands + ( ) hundreds + ( ) tens + ( ) ones

6,121 = ( ) thousands + ( ) hundreds + ( ) tens + ( ) ones

6,036 = ( ) thousands + ( ) hundreds + ( ) tens + ( ) ones

4,777 = ( ) thousands + ( ) hundreds + ( ) tens + ( ) ones

4,578 = ( ) thousands + ( ) hundreds + ( ) tens + ( ) ones

6,825 = ( ) thousands + ( ) hundreds + ( ) tens + ( ) ones

2,145 = ( ) thousands + ( ) hundreds + ( ) tens + ( ) ones

6,223 = ( ) thousands + ( ) hundreds + ( ) tens + ( ) ones

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AHMED HETA

Identifying place value

Determine the place value of the underlined digit

2̲4	2 tens
5̲2	
7̲0	
4̲7	
3̲9	
6̲2	
8̲7	
3̲5	
1̲4	

3̲4	4 ones
8̲9	
5̲6	
2̲0	
5̲5	
1̲8	
5̲1	
4̲6	
9̲3	

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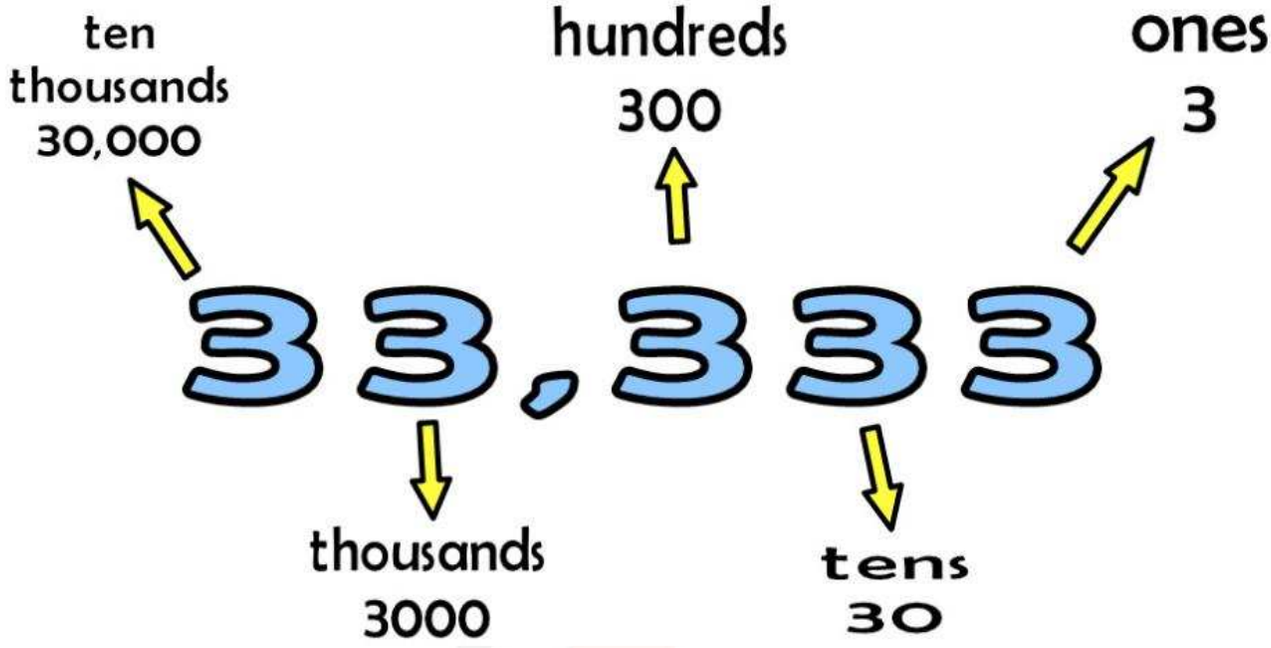
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي



thousands	hundreds	tens	ones
4	0	7	4
4,000	000	70	4

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

a. What is the place value of each underlined digit?

9<u>3</u>4 tens	<u>8</u>38	58<u>4</u>	<u>9</u>42
4<u>8</u>2	59<u>2</u>	5<u>4</u>7	22<u>0</u>

b. What is the digit value of each underlined digit?

6<u>3</u>2 30	<u>1</u>90	4<u>3</u>9	<u>6</u>95
37<u>2</u>	<u>1</u>77	3<u>3</u>0	39<u>2</u>

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AHMED HETA

Write the place value and digit value for coloured digit.

Number	Place Value	Digit Value
2 6 3 **2**	ones	
7 **6** 7 0		
4 5 1 9		
8 1 9 **7**		7
5 **5** 6 4	hundreds	
9 2 4 8		9000
5 3 **8** 5		

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AHMED HETA

No	Number	Place Value	Digit Value
1	76 014		
2	66 054		
3	26 111		
4	17 320		
5	32 005		
5	22 532		
7	50 342		
8	44 900		
9	87 588		
10	40 602		

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AHMED HETA

154	50	447	7	843	800
345	____	894	____	334	____
674	____	253	____	446	____
451	____	376	____	625	____
855	____	542	____	168	____
369	____	164	____	738	____
409	____	389	____	799	____
707	____	328	____	848	____

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AHMED HETA

Fill out the place value chart.

Number: 524

hundreds	tens	ones
5	2	4

Number: 678

hundreds	tens	ones

Number: 25

hundreds	tens	ones

Number: 502

hundreds	tens	ones

Number: 310

hundreds	tens	ones

Number: 294

hundreds	tens	ones

Number: 400

hundreds	tens	ones

Number: 841

hundreds	tens	ones

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AHMED HETA

Color the place value of the underlined number.

5̲14		
hundreds	tens	ones

2̲68		
hundreds	tens	ones

13̲2		
hundreds	tens	ones

31̲0		
hundreds	tens	ones

69̲8		
hundreds	tens	ones

57̲5		
hundreds	tens	ones

7̲04		
hundreds	tens	ones

42̲9		
hundreds	tens	ones

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1. 502 ___ hundreds ___ tens ___ ones	2. 673 ___ hundreds ___ tens ___ ones
3. 981 ___ hundreds ___ tens ___ ones	4. 720 ___ hundreds ___ tens ___ ones
5. 487 ___ hundreds ___ tens ___ ones	6. 199 ___ hundreds ___ tens ___ ones
7. 363 ___ hundreds ___ tens ___ ones	8. 804 ___ hundreds ___ tens ___ ones

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Part 5: Adding and subtracting big numbers

FINAL ANSWER

```
  9 8 5 4
- 5 3 4 2
---------
        2
```

Step 1: Subtract ones.

```
  9 8 5 4
- 5 3 4 2
---------
      1 2
```

Step 2: Subtract tens.

```
  9 8 5 4
- 5 3 4 2
---------
    5 1 2
```

Step 3: Subtract hundreds.

```
  9 8 5 4
- 5 3 4 2
---------
  4 5 1 2
```

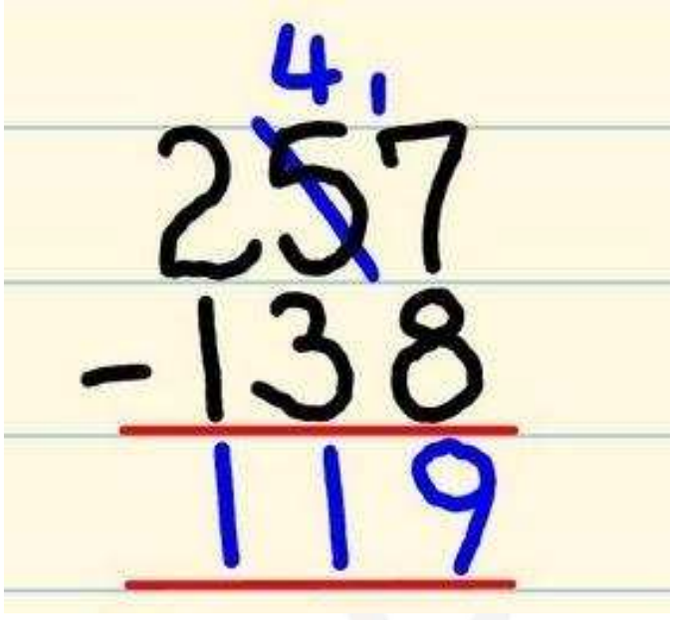
Step 4: Subtract thousands.

FINAL ANSWER

AHMED HETA

$$1647 - 549 =$$

$$\begin{array}{r} 1\,\overset{5}{\cancel{6}}\,\overset{13}{\cancel{4}}\,\overset{1}{7} \\ -\quad 5\,4\,9 \\ \hline 1\,0\,9\,8 \end{array}$$



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80 +12	87 −27	76 +23	83 −13	20 +27
62 −39	22 +10	51 −36	19 +38	53 −34
15 +18	63 −51	58 +20	99 −12	30 +43
59 −22	19 +13	57 −47	26 +26	63 −33
51 +23	37 −27	24 +69	66 −45	68 +24

787 - 179 =	835 - 392 =	725 - 351 =
731 - 391 =	996 - 377 =	830 - 292 =
782 - 331 =	772 - 264 =	601 - 405 =
684 - 369 =	802 - 360 =	651 - 479 =

44 -27	95 -88	365 - 85	634 - 89
125 - 25	800 -700	90 -79	293 - 78
367 -307	99 -88	899 - 79	90 -71
509 -500	256 -122	899 - 99	178 - 79
123 - 69	238 -108	256 - 88	320 -120
90 -80	780 - 80	127 - 38	192 - 87
600 -555	440 -300	300 -300	223 - 47

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147 + 65	249 + 54	480 + 96	724 + 77
338 +164	761 +139	623 +479	584 +215
328 - 68	169 - 74	943 - 52	517 - 63
836 -268	545 - 385	905 -628	734 - 461

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17111 + 717	15721 + 167
95122 + 317	54073 + 924
97899 - 649	89785 - 654
21695 - 633	70915 - 310

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845 + 98	378 + 64	492 + 75
532 + 88	663 + 95	720 + 89
876 + 109	235 + 329	431 + 286
722 + 238	590 + 284	409 + 477

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AHMED HETA

SUBTRACTION - THREE DIGIT (WITH BORROWING)

H	T	O
4	4	1
- 3	6	7

H	T	O
5	2	3
- 2	8	9

H	T	O
6	2	7
- 5	3	9

H	T	O
8	9	2
- 7	0	5

H	T	O
7	8	5
- 5	9	6

H	T	O
6	3	0
- 5	4	9

H	T	O
9	1	1
- 6	7	7

H	T	O
4	4	4
- 3	8	8

H	T	O
3	2	3
- 2	7	6

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332 + 241	430 + 402	777 + 111	186 + 453
2693 + 5601	2007 + 1814	387 + 195	256 + 343
5109 + 3472	16860 + 69328	3333 + 8888	46879 + 10000

397 - 192	89634 - 64613	999 - 111	2586 - 1362
621 - 416	9237 - 3144	1053 - 855	8729 - 5002
2537 - 1792	44506 - 11254	3792 - 2834	1000 - 745

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Horizontal addition and subtraction

5643 – 1242 = ...

1st way

Solve the problem vertically

5643

-

1242

4401

2nd way

- ones place with ones places

-tens place with tens place

..... and so on

5643 – 1242 = 4401

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1) 981 + 239 =	2) 301 + 357 =
3) 818 + 736 =	4) 435 + 183 =
5) 254 + 345 =	6) 677 + 535 =
7) 480 + 410 =	8) 776 + 503 =
9) 682 + 376 =	10) 884 + 812 =
11) 559 + 937 =	12) 165 + 930 =
13) 338 + 112 =	14) 880 + 463 =
15) 200 + 993 =	16) 517 + 805 =
17) 276 + 268 =	18) 887 + 523 =
19) 766 + 644 =	20) 346 + 213 =
21) 853 + 680 =	22) 508 + 989 =
23) 200 + 281 =	24) 152 + 394 =
25) 168 + 598 =	26) 491 + 176 =
27) 363 + 498 =	28) 915 + 541 =
29) 998 + 183 =	30) 677 + 712 =

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

Find the sums.

110 + 411 =	933 + 455 =
635 + 705 =	613 + 524 =
520 + 594 =	928 + 653 =
78 + 912 =	136 + 131 =
847 + 289 =	856 + 186 =
777 + 357 =	762 + 96 =
989 + 54 =	548 + 140 =
454 + 867 =	900 + 268 =

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

$340 - 235 =$	$666 - 226 =$
$366 - 120 =$	$957 - 156 =$
$395 - 272 =$	$763 - 461 =$
$782 - 437 =$	$612 - 413 =$
$839 - 754 =$	$579 - 556 =$
$869 - 708 =$	$598 - 287 =$
$913 - 346 =$	$826 - 343 =$
$678 - 449 =$	$766 - 487 =$
$610 - 597 =$	$882 - 801 =$
$548 - 199 =$	$796 - 473 =$
$384 - 383 =$	$810 - 635 =$
$767 - 256 =$	$459 - 373 =$

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

Mini ate 6 ice-creams. Sam ate 2 ice-creams. How many ice-creams did they eat in total?

☐ + ☐ = ☐

Martin plucked 4 apples. Later he plucked 5 more. How many apples did he pluck in total?

☐ + ☐ = ☐

Alice brought 2 pencils. Her dad brought 7 more pencils for her. How many total pencils are there ?

☐ + ☐ = ☐

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

- Ahmed had 8442 pounds, he bought a toy car by 332 pounds. How many pounds are left with him??

.....

- If the distance between Ahmed's home and his work is 362 km, he covered 145 km. what is the remained distance ?

.....

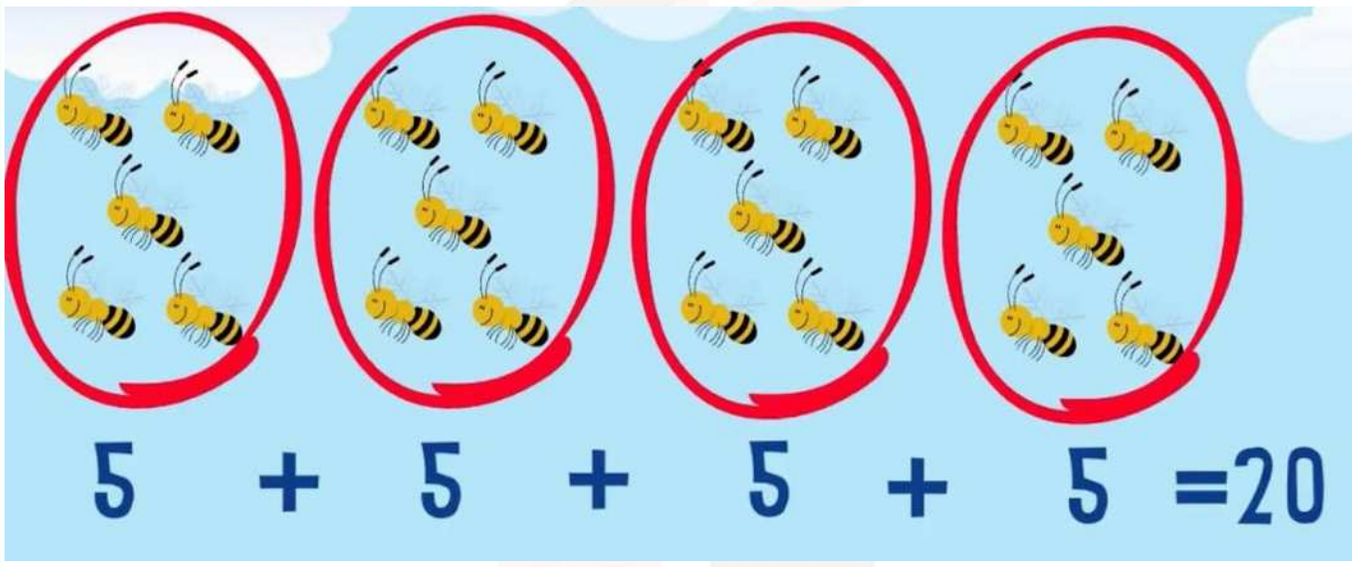
- There are 5600 ants in a colony , 4200 of them are males so how many females in the colony ?

.....

- Mona and Ehab are traveling from Aswan to Alexa . They will travel 514 km on the first day , and will travel 597 km in the second day . How many kilometers will they travel in all ?

.....

Part 6: multiplication strategies



$3 \times 4 = 12$

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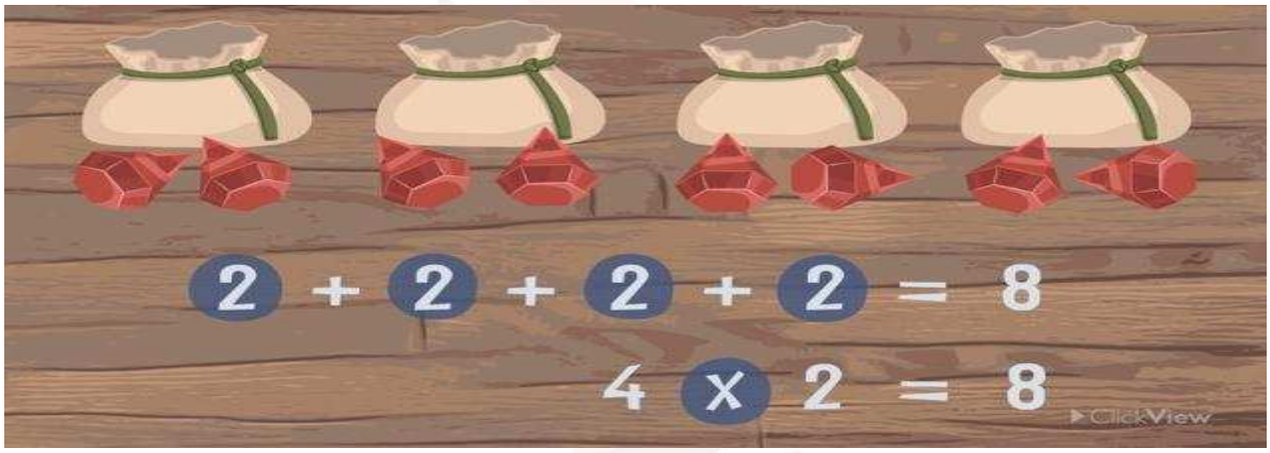
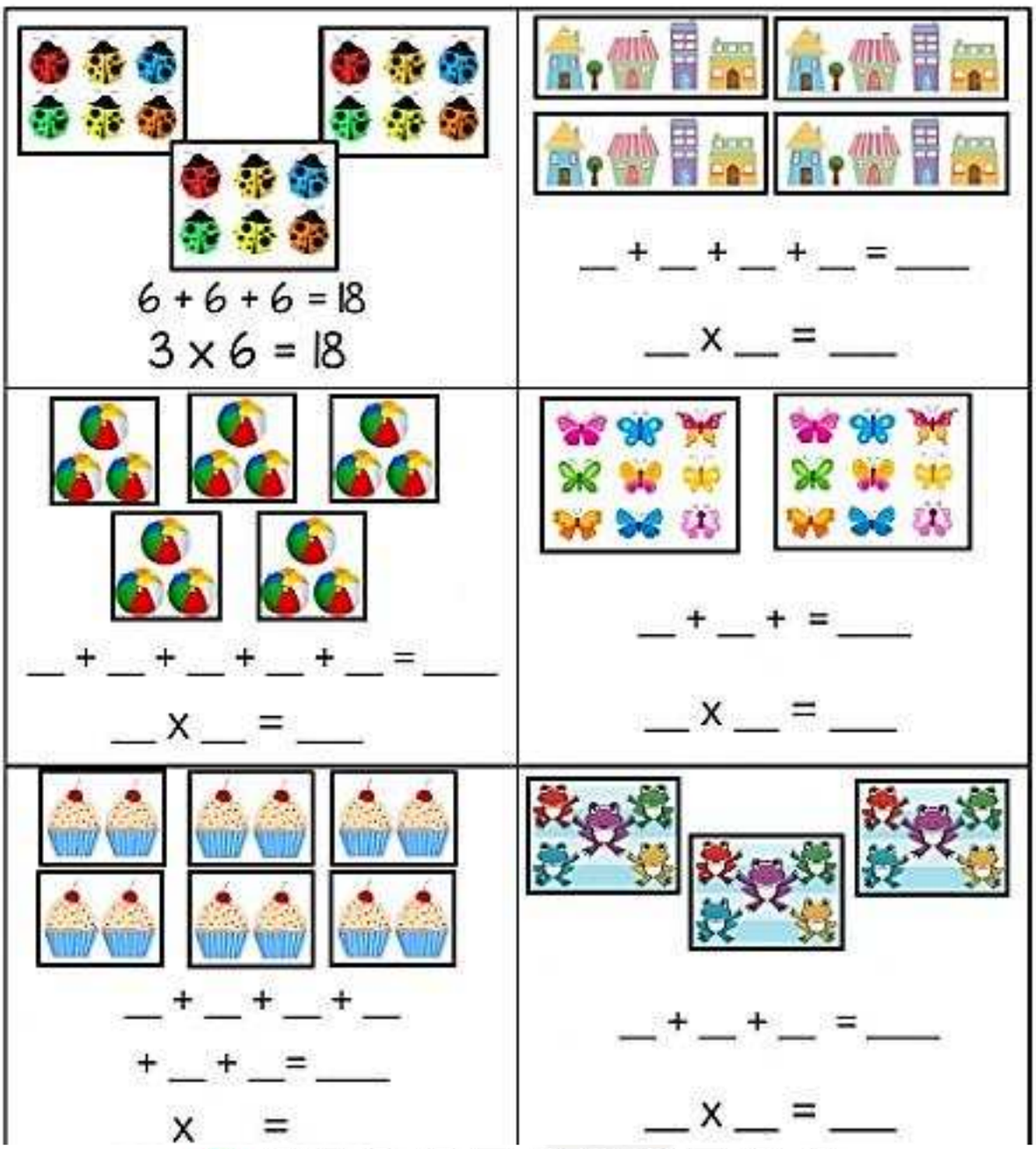
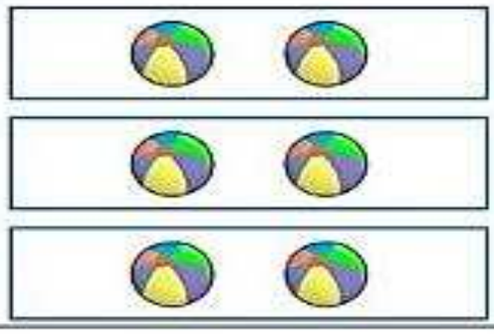
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي


2 + 2 + 2 + 2 = 8
4 x 2 = 8
ClickView


6 + 6 + 6 = 18
3 x 6 = 18
__ + __ + __ + __ + __ = ____
__ x __ = ____
__ + __ + = ____
__ x __ = ____
__ + __ + __ + __ + __ = ____
__ x __ = ____
__ + __ + __ + __
+ __ + __ = ____
x =
__ + __ + __ = ____
__ x __ = ____

$2+2+2=6$	$2x3=6$
$5+5+5+5=\ldots$	$5x\ldots=\ldots$
$3+3+3+3+3=\ldots$	$3x\ldots=\ldots$
$6+6=\ldots$	$6x\ldots=\ldots$
$4+4+4=\ldots$	$4x\ldots=\ldots$
$2+2+2+2+2=\ldots$	$2x\ldots=\ldots$
$1+1+1+1+1+1+1=\ldots$	$1x\ldots=\ldots$
$8+8+8=\ldots$	$8x\ldots=\ldots$
$2+2=\ldots$	$2x\ldots=\ldots$
$3+3+3=\ldots$	$3x\ldots=\ldots$
$10+10+10+10=\ldots$	$10x\ldots=\ldots$
$5+5+5=\ldots$	$5x\ldots=\ldots$
$4+4=\ldots$	$4x\ldots=\ldots$
$3+3=\ldots$	$3x\ldots=\ldots$
$10+10+10=\ldots$	$10x\ldots=\ldots$
$1+1+1+1=\ldots$	$1x\ldots=\ldots$

1



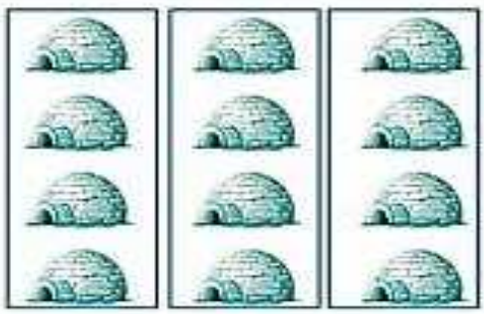
Addition expression :

□ + □ + □

Multiplication expression :

□ × □

2



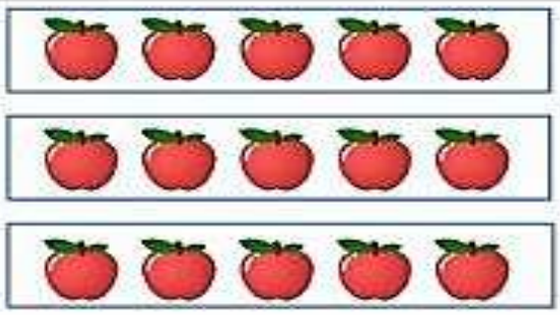
Addition expression :

□ + □ + □

Multiplication expression :

□ × □

3



Addition expression :

□ + □ + □

Multiplication expression :

□ × □

Repeated addition expression	How many times the number is repeated?	Multiplication expression	Answer
2 + 2 + 2 + 2 + 2 + 2 + 2	7 times 2	7 x 2	14
1 + 1 + 1 + 1 + 1 + 1 + 1 + 1			
3 + 3 + 3 + 3 + 3 + 3 + 3 + 3			
5 + 5 + 5 + 5 + 5 + 5			
4 + 4 + 4 + 4 + 4 + 4 + 4			

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Multiplication	Repeated addition	Answer
4 x 3	4 + 4 + 4	12
5 x 2	5 + 5	
2 x 5		
3 x 4		
10 x 4		
2 x 7		
9 x 2		
4 x 4		
6 x 3		
10 x 5		
5 x 5		
8 x 3		
12 x 2		
5 x 6		
7 x 3		
6 x 4		

AHMED HETA

_____ + _____ + _____ + _____ =

_____ + _____ + _____ + _____ + _____ =

___ + ___ + ___ + ___ + ___ + ___ + ___ =

_____ + _____ + _____ =

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

Multiplication as Repeated Addition

Match the multiplication sentence to its repeated addition.

5 x 3	6+6
3 x 5	6+6+6+6
10 x 2	10+10
6 x 4	2+2+2+2+2+2
12 x 3	1+1+1+1+1
2 x 6	5+5+5
6 x 2	3+3+3+3+3
1 x 5	12+12+12

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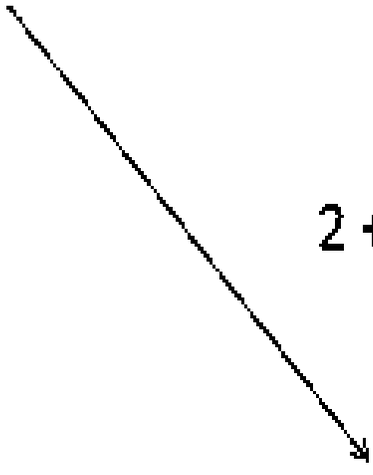
Match these multiplication facts to their repeated addition partners.

4 x 3	10 + 10 + 10
2 x 5	6 + 6
10 x 3	4 + 4 + 4 + 4 + 4
5 x 3	3 + 3 + 3
6 x 2	2 + 2 + 2 + 2 + 2
3 x 3	5 + 5 + 5



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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Multiplication	Repeated addition	Answer
3 x 5	5 + 5 + 5	15
	4 + 4 + 4 + 4	
6 x 2		12
5 x 3		
	6 + 6 + 6	
4 x 10		
	11 + 11	
	10 + 10 + 10 + 10 + 10	
3 x 8		
6 x 4		
	20 + 20	
	3 + 3 + 3 + 3 + 3 + 3	
4 x 7		
	4 + 4 + 4 + 4 + 4	
3 x 11		
	5 + 5 + 5 + 5 + 5 + 5 + 5	

Multiplication	Repeated addition	Answer
3 x 8	8 + 8 + 8	24
	7 + 7 + 7 + 7	
4 x 9		
	12 + 12 + 12	
8 x 4		
5 x 7		
	6 + 6 + 6 + 6 + 6	
	20 + 20 + 20 + 20	
3 x 13		
	9 + 9 + 9 + 9 + 9	
4 x 6		
5 x 11		
	300 + 300 + 300	
	3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3	
6 x 6		
	50 + 50 + 50 + 50	

3 + 3 + 3 + 3 4 x 3 Answer = 12	2 + 2 + 2 __ x __ Answer = ___	6 + 6 __ x __ Answer = ___
5 + 5 + 5 __ x __ Answer = ___	10 + 10 __ x __ Answer = ___	2 + 2 + 2 + 2 __ x __ Answer = ___
10 + 10 + 10 __ x __ Answer = ___	1 + 1 + 1 + 1 + 1 __ x __ Answer = ___	5 + 5 + 5 + 5 __ x __ Answer = ___
4 + 4 + 4 + 4 __ x __ Answer = ___	3 + 3 + 3 + 3 + 3 __ x __ Answer = ___	10 + 10 + 10 + 10 __ x __ Answer = ___

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Shade the correct number of boxes that need to be added together.
Next write out the repeated addition. The first one is done for you.

1) 2 x 5 = | 5 | 5 | 5 | 5 | 5 | 5 | = 5 + 5 = 10

2) 2 x 10 = | 10 | 10 | 10 | 10 | 10 | 10 | =

3) 4 x 1 = | 1 | 1 | 1 | 1 | 1 | 1 | =

4) 3 x 3 = | 3 | 3 | 3 | 3 | 3 | 3 | =

5) 2 x 6 = | 6 | 6 | 6 | 6 | 6 | 6 | =

6) 5 x 3 = | 3 | 3 | 3 | 3 | 3 | 3 | =

7) 4 x 10 = | 10 | 10 | 10 | 10 | 10 | 10 | =

8) 5 x 5 = | 5 | 5 | 5 | 5 | 5 | 5 | =

9) 2 x 8 = | 8 | 8 | 8 | 8 | 8 | 8 | =

10) 4 x 4 = | 4 | 4 | 4 | 4 | 4 | 4 | =

11) 1 x 9 = | 9 | 9 | 9 | 9 | 9 | 9 | =

12) 6 x 2 = | 2 | 2 | 2 | 2 | 2 | 2 | =

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Example

4 x 2 means 4 lots of 2 or 2 + 2 + 2 + 2.

Shade the correct number of boxes that need to be added together.

Next write out the repeated addition. The first one is done for you.

1)	4 x 2 =	2	2	2	2	2	2	= 2 + 2 + 2 + 2
2)	5 x 3 =	3	3	3	3	3	3	=
3)	2 x 5 =	5	5	5	5	5	5	=
4)	3 x 10 =	10	10	10	10	10	10	=
5)	1 x 8 =	8	8	8	8	8	8	=
6)	5 x 4 =	4	4	4	4	4	4	=
7)	3 x 3 =	3	3	3	3	3	3	=
8)	3 x 6 =	6	6	6	6	6	6	=
9)	6 x 2 =	2	2	2	2	2	2	=
10)	5 x 5 =	5	5	5	5	5	5	=

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Change these repeated addition facts to multiplication facts and work them out.

1)	3 + 3 + 3	=	3 x 3	=		11)	2 x 3	=	2 + 2 + 2	=	
2)	2 + 2 + 2	=		=		12)	4 x 2	=		=	
3)	5 + 5	=		=		13)	2 x 2	=		=	
4)	4 + 4 + 4	=		=		14)	1 x 4	=		=	
5)	1 + 1 + 1	=		=		15)	3 x 3	=		=	
6)	3 + 3 + 3 + 3	=		=		16)	2 x 4	=		=	
7)	5 + 5 + 5	=		=		17)	5 x 3	=		=	
8)	2 + 2 + 2 + 2	=		=		18)	3 x 4	=		=	
9)	1 + 1 + 1 + 1	=		=		19)	2 x 5	=		=	
10)	0 + 0 + 0	=		=		20)	4 x 5	=		=	

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

0 Times Table

$0 \times 1 = 0$

$0 \times 2 = 0$

$0 \times 3 = 0$

$0 \times 4 = 0$

$0 \times 5 = 0$

$0 \times 6 = 0$

$0 \times 7 = 0$

$0 \times 8 = 0$

$0 \times 9 = 0$

$0 \times 10 = 0$

$2 \times 0 =$	...
$9 \times 0 =$	...
$4 \times 0 =$	...
$7 \times 0 =$	...
$8 \times 0 =$	...
$0 \times 0 =$	...
$1 \times 0 =$	...
$0 \times 6 =$	...
$0 \times 1 =$	...
$0 \times 7 =$	...
$12 \times 0 =$	...
$5 \times 0 =$	...
$9 \times 0 =$	...
$0 \times 8 =$	...
$10 \times 0 =$	...
$11 \times 0 =$	...

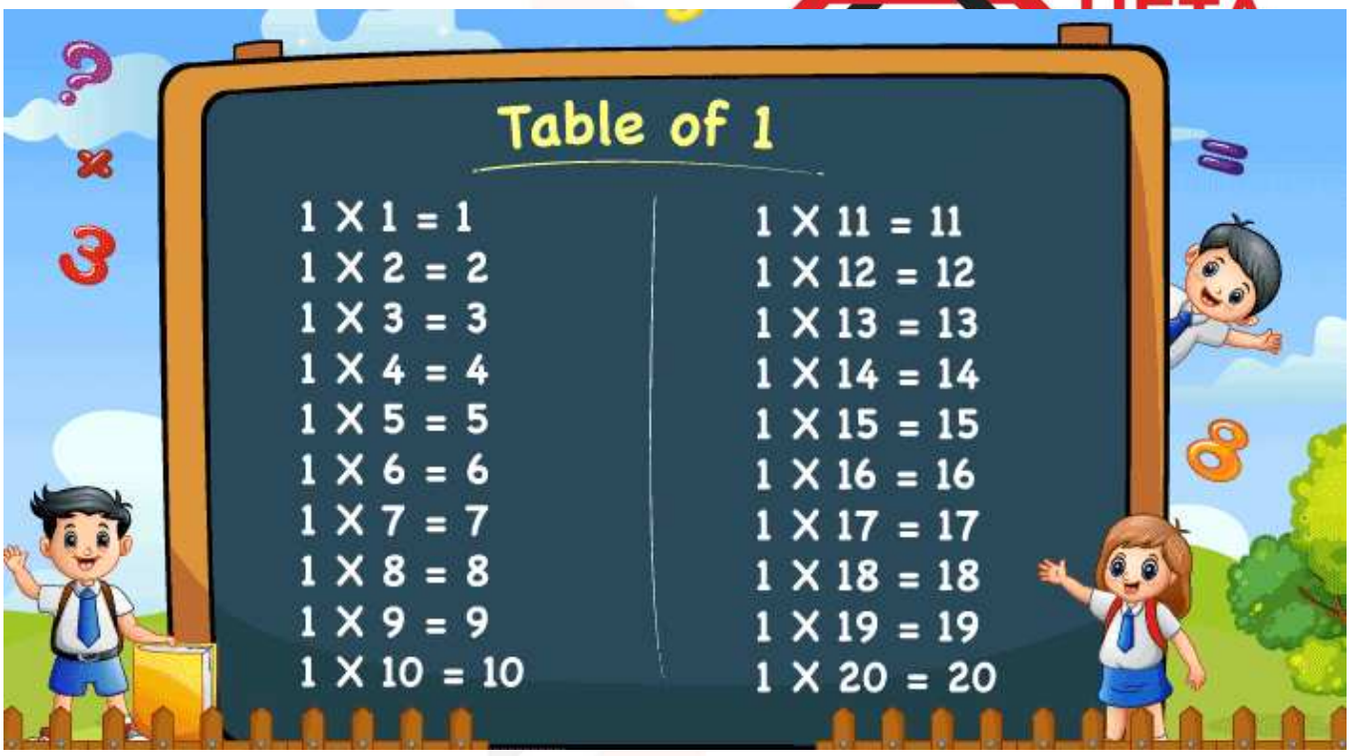
Table of 1
1 X 1 = 1
1 X 2 = 2
1 X 3 = 3
1 X 4 = 4
1 X 5 = 5
1 X 6 = 6
1 X 7 = 7
1 X 8 = 8
1 X 9 = 9
1 X 10 = 10
1 X 11 = 11
1 X 12 = 12
1 X 13 = 13
1 X 14 = 14
1 X 15 = 15
1 X 16 = 16
1 X 17 = 17
1 X 18 = 18
1 X 19 = 19
1 X 20 = 20

1x
When a number is multiplied by
1 the result is the number itself

2 x 0 =	...		3 x 0 =	...
1 x 4 =	...		3 x 1 =	...
5 x 1 =	...		8 x 0 =	...
0 x 7 =	...		0 x 8 =	...
6 x 1 =	...		18 x 1 =	...
9 x 1 =	...		7 x 0 =	...
7 x 1 =	...		11 x 1 =	...
12 x 1 =	...		13 x 0 =	...
1 x 1 =	...		0 x 55 =	...
0 x 2 =	...		76 x 0 =	...
16 x 1 =	...		12 x 1 =	...
1 x 15 =	...		0 x 23 =	...
4 x 1 =	...		6 x 1 =	...
0 x 0 =	...		1 x 9 =	...
5 x 0 =	...		2 x 1 =	...

AHMED HETA

2

TWO TIMES TABLE

2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20
2 x 11 = 22
2 x 12 = 24

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

2 x 0 =	10 x 2 =
2 x 1 =	11 x 2 =
2 x 2 =	12 x 2 =
2 x 3 =	9 x 2 =
2 x 4 =	8 x 2 =
2 x 5 =	7 x 2 =
2 x 6 =	6 x 2 =
2 x 7 =	5 x 2 =
2 x 8 =	4 x 2 =
2 x 9 =	3 x 2 =

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2 x 1 =	2 x 6 =	2 x 3 =
2 | 1 | 3	10 | 12 | 16	6 | 9 | 4
2 x 7 =	2 x 2 =	2 x 10 =
16 | 18 | 14	8 | 4 | 6	30 | 20 | 12
2 x 12 =	2 x 9 =	2 x 5 =
24 | 14 | 32	20 | 22 | 18	8 | 10 | 14
2 x 8 =	2 x 11 =	2 x 4 =
16 | 10 | 18	33 | 32 | 22	12 | 6 | 8

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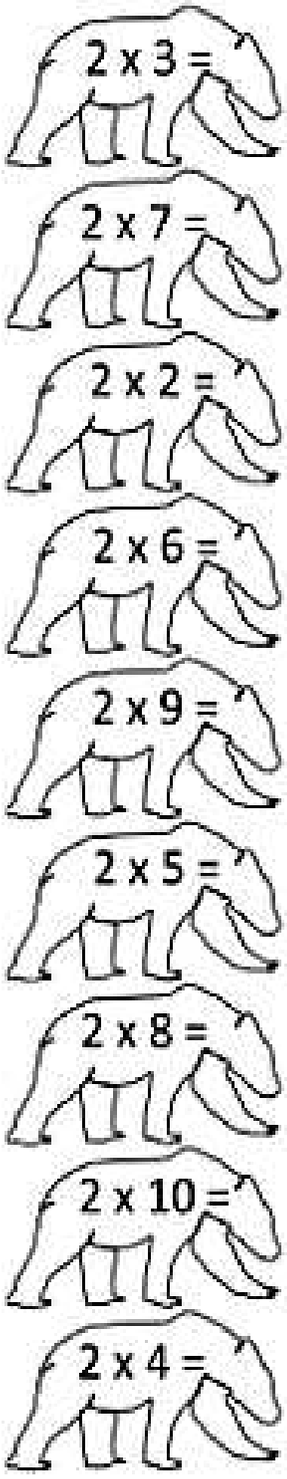

12
6
18
4
16
8
20
14
10

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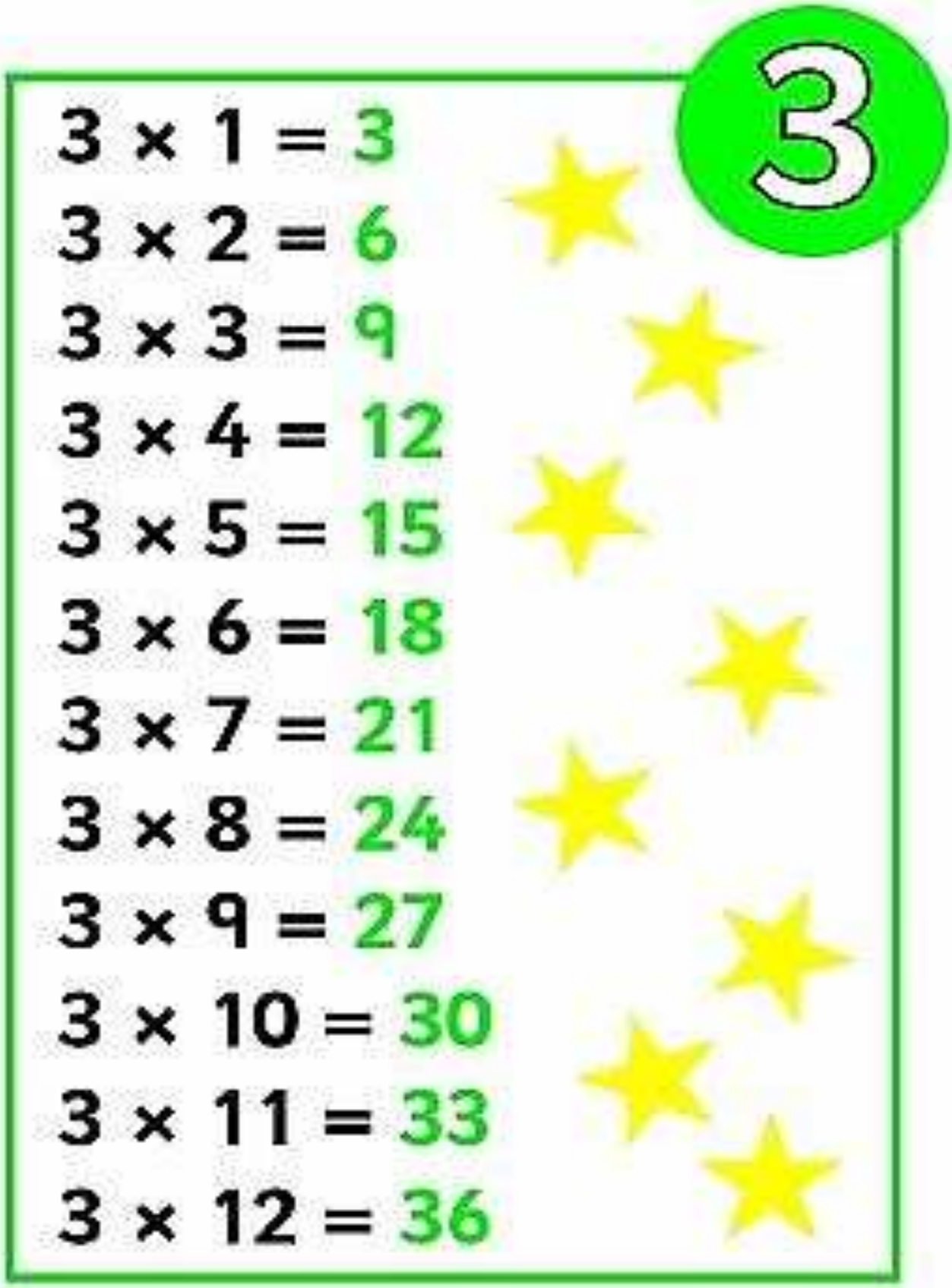

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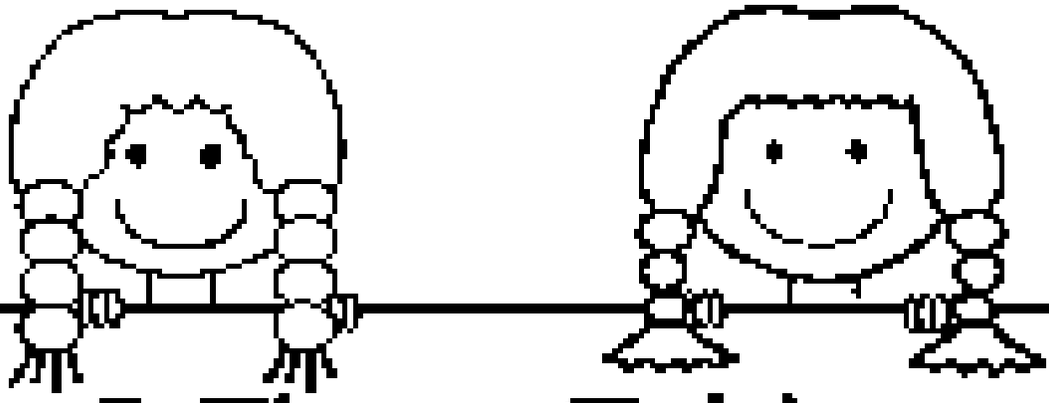

3 Times Table

3 x 1=	3 x 7=
3 x 2=	3 x 8=
3 x 3=	3 x 9=
3 x 4=	3 x 10=
3 x 5=	3 x 11=
3 x 6=	3 x 12=

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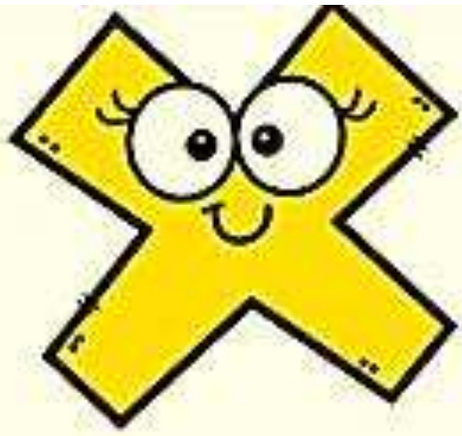
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

3 Times Table Speed Test



1 x 3 =	10 x 3 =	11 x 3 =
6 x 3 =	3 x 3 =	2 x 3 =
8 x 3 =	7 x 3 =	9 x 3 =
5 x 3 =	0 x 3 =	4 x 3 =
7 x 3 =	12 x 3 =	1 x 3 =
4 x 3 =	8 x 3 =	12 x 3 =
9 x 3 =	10 x 3 =	7 x 3 =

AHMED HETA

4 times table

1 x 4 = 4
2 x 4 = 8
3 x 4 = 12
4 x 4 = 16
5 x 4 = 20
6 x 4 = 24
7 x 4 = 28
8 x 4 = 32
9 x 4 = 36
10 x 4 = 40
11 x 4 = 44
12 x 4 = 48

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

4 x 1 =	8
4 x 2 =	20
4 x 3 =	24
4 x 4 =	4
4 x 5 =	16
4 x 6 =	12
4 x 7 =	32
4 x 8 =	28
4 x 9 =	40
4 x 10 =	36

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

4	x	1	=	2	x	4	=
4	x	2	=	3	x	4	=
4	x	3	=	8	x	4	=
4	x	4	=	3	x	4	=
4	x	3	=	6	x	4	=
4	x	6	=	10	x	4	=
4	x	7	=	1	x	4	=
4	x	8	=	9	x	4	=
4	x	9	=	3	x	4	=
4	x	10	=	4	x	4	=
4	x	3	=	7	x	4	=

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

4 x 1 =	4 x 6 =	4 x 3 =
5 | 4 | 3	24 | 21 | 18	14 | 12 | 9
4 x 7 =	4 x 2 =	4 x 10 =
21 | 28 | 35	9 | 6 | 8	40 | 30 | 10
4 x 12 =	4 x 9 =	4 x 5 =
48 | 52 | 42	54 | 36 | 45	10 | 15 | 20
4 x 8 =	4 x 11 =	4 x 4 =
32 | 40 | 24	44 | 33 | 22	24 | 16 | 20

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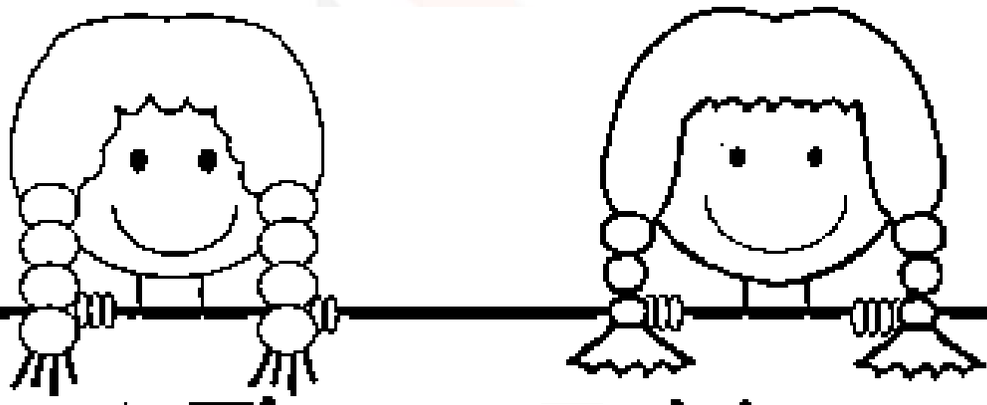
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA



4 Times Table

4 x 1=	4 x 7=
4 x 2=	4 x 8=
4 x 3=	4 x 9=
4 x 4=	4 x 10=
4 x 5=	4 x 11=
4 x 6=	4 x 12=

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

5	x	1	=	5
5	x	2	=	10
5	x	3	=	15
5	x	4	=	20
5	x	5	=	25
5	x	6	=	30
5	x	7	=	35
5	x	8	=	40
5	x	9	=	45
5	x	10	=	50

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

5 Times Table			
5	x	1	=
5	x	2	=
5	x	3	=
5	x	4	=
5	x	5	=
5	x	6	=
5	x	7	=
5	x	8	=
5	x	9	=
5	x	10	=
5	x	11	=
5	x	12	=

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

2 x 1 =	3 x 4 =
3 x 5 =	4 x 2 =
5 x 3 =	3 x 3 =
3 x 4 =	1 x 4 =
1 x 4 =	3 x 1 =
3 x 2 =	2 x 4 =
4 x 4 =	5 x 2 =
1 x 2 =	3 x 5 =
2 x 4 =	4 x 4 =
3 x 5 =	3 x 3 =
2 x 4 =	3 x 1 =
4 x 4 =	5 x 4 =
3 x 4 =	3 x 3 =
3 x 5 =	2 x 4 =
5 x 1 =	3 x 2 =
3 x 2 =	1 x 4 =
3 x 3 =	3 x 1 =
2 x 4 =	5 x 3 =
3 x 2 =	3 x 2 =
3 x 4 =	4 x 4 =
3 x 3 =	4 x 5 =
1 x 4 =	3 x 1 =
3 x 1 =	2 x 2 =
5 x 4 =	3 x 4 =
5 x 2 =	1 x 1 =

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

5 x 1 =	10
5 x 2 =	25
5 x 3 =	20
5 x 4 =	5
5 x 5 =	15
5 x 6 =	35
5 x 7 =	50
5 x 8 =	40
5 x 9 =	30
5 x 10 =	45

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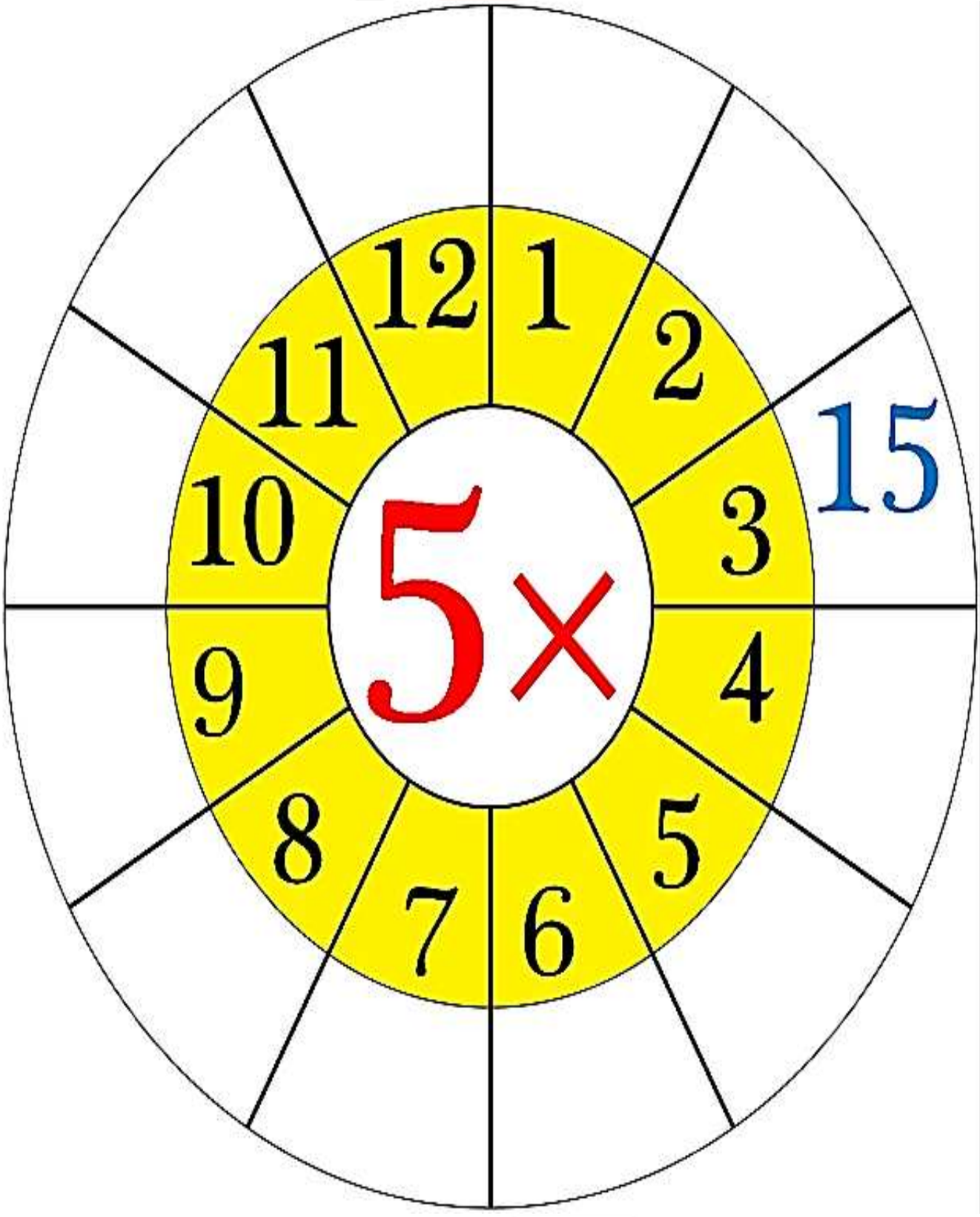
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

1 x 5 =	5 x 1 =
2 x 5 =	5 x 2 =
3 x 5 =	5 x 3 =
4 x 5 =	5 x 4 =
5 x 5 =	5 x 5 =
6 x 5 =	5 x 6 =
7 x 5 =	5 x 7 =
8 x 5 =	5 x 8 =
9 x 5 =	5 x 9 =
10 x 5 =	5 x 10 =
11 x 5 =	5 x 11 =
12 x 5 =	5 x 12 =

D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي



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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Table

6	X	1	= 6
6	X	2	= 12
6	X	3	= 18
6	X	4	= 24
6	X	5	= 30
6	X	6	= 36
6	X	7	= 42
6	X	8	= 48
6	X	9	= 54
6	X	10	= 60

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

6 times table	7 times table	8 times table	9 times table	10 times table
0x6=	0x7=	0x8=	0x9=	0x10=
1x6=	1x7=	1x8=	1x9=	1x10=
2x6=	2x7=	2x8=	2x9=	2x10=
3x6=	3x7=	3x8=	3x9=	3x10=
4x6=	4x7=	4x8=	4x9=	4x10=
5x6=	5x7=	5x8=	5x9=	5x10=
6x6=	6x7=	6x8=	6x9=	6x10=
7x6=	7x7=	7x8=	7x9=	7x10=
8x6=	8x7=	8x8=	8x9=	8x10=
9x6=	9x7=	9x8=	9x9=	9x10=
10x6=	10x7=	10x8=	10x9=	10x10=
11x6=	11x7=	11x8=	11x9=	11x10=
12x6=	12x7=	12x8=	12x9=	12x10=

MULTIPLICATION TABLE WORKSHEET

2, 3, 4, 5 & 10 Times Table Worksheet

10 x 2 =	8 x __ = 40	__ x 4 = 8	10 x 5 = __
2 x 5 =	5 x __ = 25	__ x 8 = 32	__ x 2 = 6
4 x 2 =	4 x __ = 20	__ x 2 = 10	10 x 4 = __
3 x 4 =	8 x __ = 16	__ x 5 = 25	8 x __ = 40
7 x 5 =	10 x __ = 50	__ x 10 = 40	__ x 4 = 32
8 x 3 =	4 x __ = 12	__ x 7 = 28	10 x __ = 30
9 x 2 =	7 x __ = 35	__ x 3 = 30	__ x 8 = 24
5 x 10 =	10 x __ = 40	__ x 6 = 30	10 x 3 = __
2 x 3 =	3 x __ = 15	__ x 9 = 27	10 x 10 = __
6 x 4 =	2 x __ = 8	__ x 10 = 20	__ x 10 = 100

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

1 x 1	1	2 x 1	2	3 x 1		4 x 1		5 x 1	
1 x 2	2	2 x 2	4	3 x 2		4 x 2		5 x 2	
1 x 3		2 x 3		3 x 3		4 x 3		5 x 3	
1 x 4		2 x 4		3 x 4		4 x 4		5 x 4	
1 x 5		2 x 5		3 x 5		4 x 5		5 x 5	
1 x 6		2 x 6		3 x 6		4 x 6		5 x 6	
1 x 7		2 x 7		3 x 7		4 x 7		5 x 7	
1 x 8		2 x 8		3 x 8		4 x 8		5 x 8	
1 x 9		2 x 9		3 x 9		4 x 9		5 x 9	
1 x 10		2 x 10		3 x 10		4 x 10		5 x 10	

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

6x1	6	7x1	7	8x1		9x1		10x1	
6x2	12	7x2		8x2		9x2		10x2	
6x3		7x3		8x3		9x3		10x3	
6x4		7x4		8x4		9x4		10x4	
6x5		7x5		8x5		9x5		10x5	
6x6		7x6		8x6		9x6		10x6	
6x7		7x7		8x7		9x7		10x7	
6x8		7x8		8x8		9x8		10x8	
6x9		7x9		8x9		9x9		10x9	
6x10		7x10		8x10		9x10		10x10	

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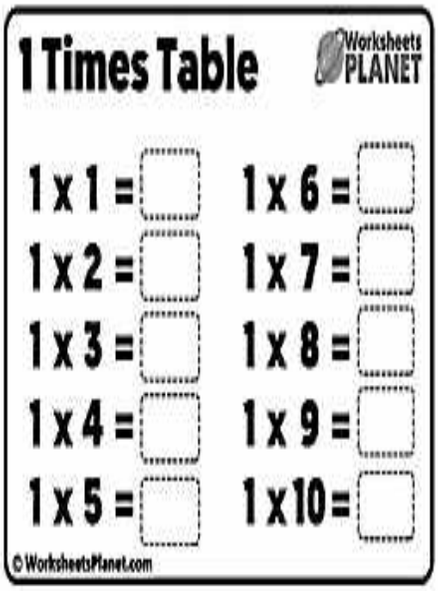
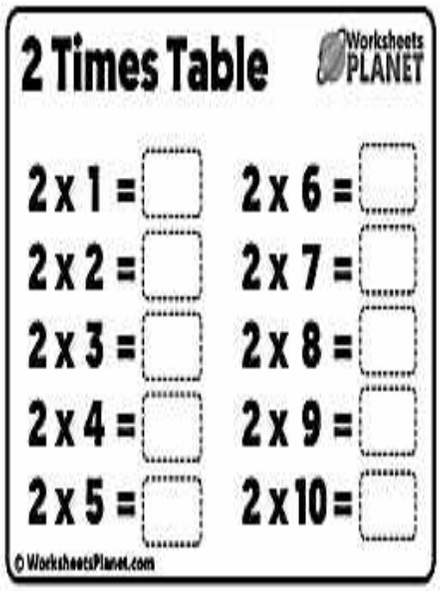
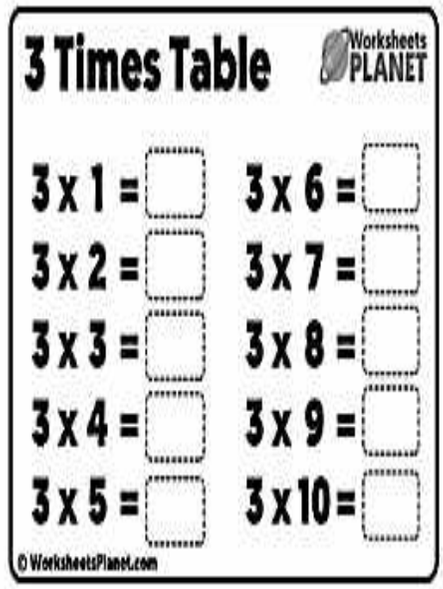
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

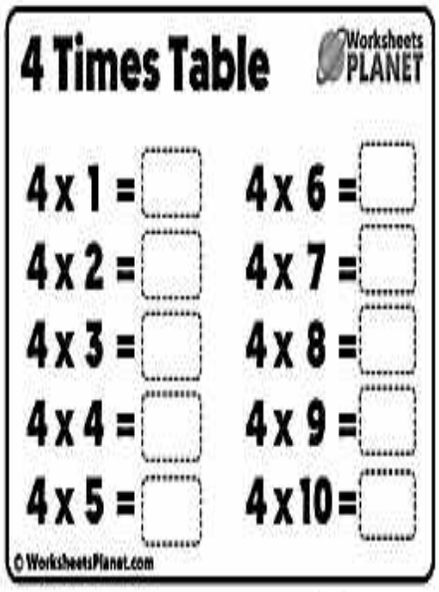
2x2 4	4x8 32	3x2 6	3x4
2x11	6x6	7x9	3x6
3x1	8x8	8x9	7x9
5x2	7x7	6x7	5x1
3x3	3x4	5x4	8x2
4x5	2x6	7x10	4x7
3x7	9x9	8x1	3x7
6x3	7x8	11x0	2x7
5x3	5x5	8x5	6x6
6x4	8x2	9x5	8x4
8x3	9x9	6x9	6x2
8x6	3x9	4x2	7x7
7x5	6x4	9x2	2x10
5x6	7x1	8x3	3x5
4x7	9x0	4x9	6x4

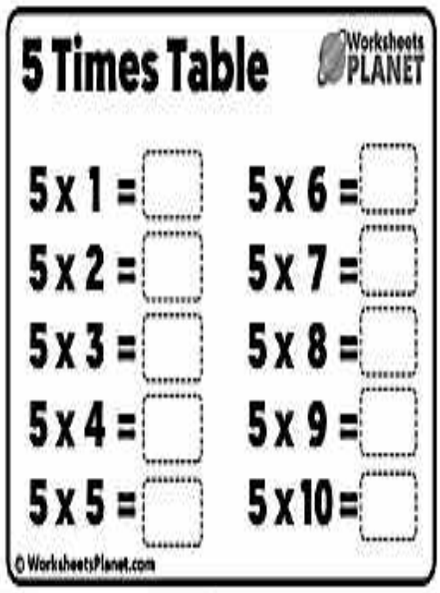
AHMED HETA

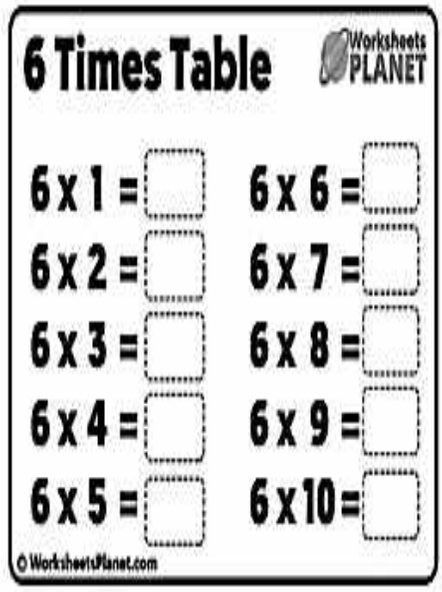


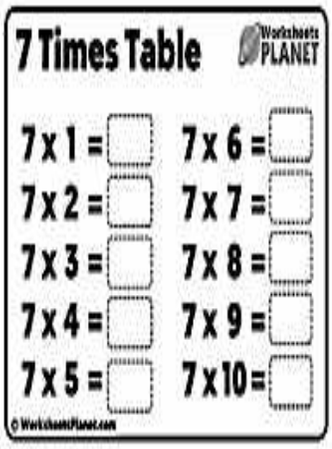


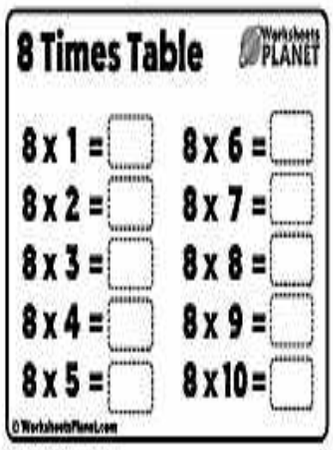


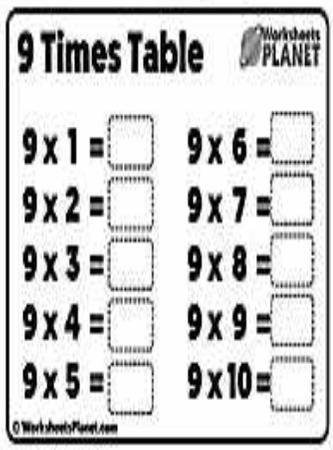


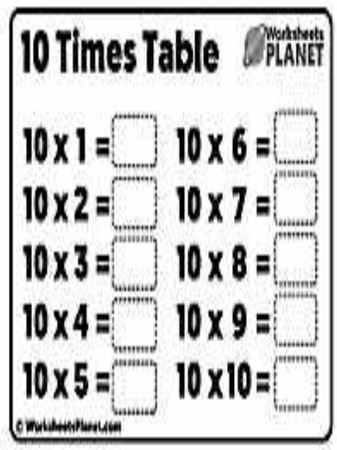












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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

2 x 1=	3 x 1=	4 x 1=	5 x 1=	6 x 1=
2 x 2=	3 x 2=	4 x 2=	5 x 2=	6 x 2=
2 x 3=	3 x 3=	4 x 3=	5 x 3=	6 x 3=
2 x 4=	3 x 4=	4 x 4=	5 x 4=	6 x 4=
2 x 4=	3 x 4=	4 x 4=	5 x 4=	6 x 4=
2 x 5=	3 x 5=	4 x 5=	5 x 5=	6 x 5=
2 x 6=	3 x 6=	4 x 6=	5 x 6=	6 x 6=
2 x 7=	3 x 7=	4 x 7=	5 x 7=	6 x 7=
2 x 8=	3 x 8=	4 x 8=	5 x 8=	6 x 8=
2 x 9=	3 x 9=	4 x 9=	5 x 9=	6 x 9=
2 x 10=	3 x 10=	4 x 10=	5 x 10=	6 x 10=
2 x 11=	3 x 11=	4 x 11=	5 x 11=	6 x 11=
2 x 12=	3 x 12=	4 x 12=	5 x 12=	6 x 12=

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

2x2 4	4x8 32	3x2 6	3x4
2x11	6x6	7x9	3x6
3x1	8x8	8x9	7x9
5x2	7x7	6x7	5x1
3x3	3x4	5x4	8x2
4x5	2x6	7x10	4x7
3x7	9x9	8x1	3x7
6x3	7x8	11x0	2x7
5x3	5x5	8x5	6x6
6x4	8x2	9x5	8x4
8x3	9x9	6x9	6x2
8x6	3x9	4x2	7x7
7x5	6x4	9x2	2x10
5x6	7x1	8x3	3x5
4x7	9x0	4x9	6x4

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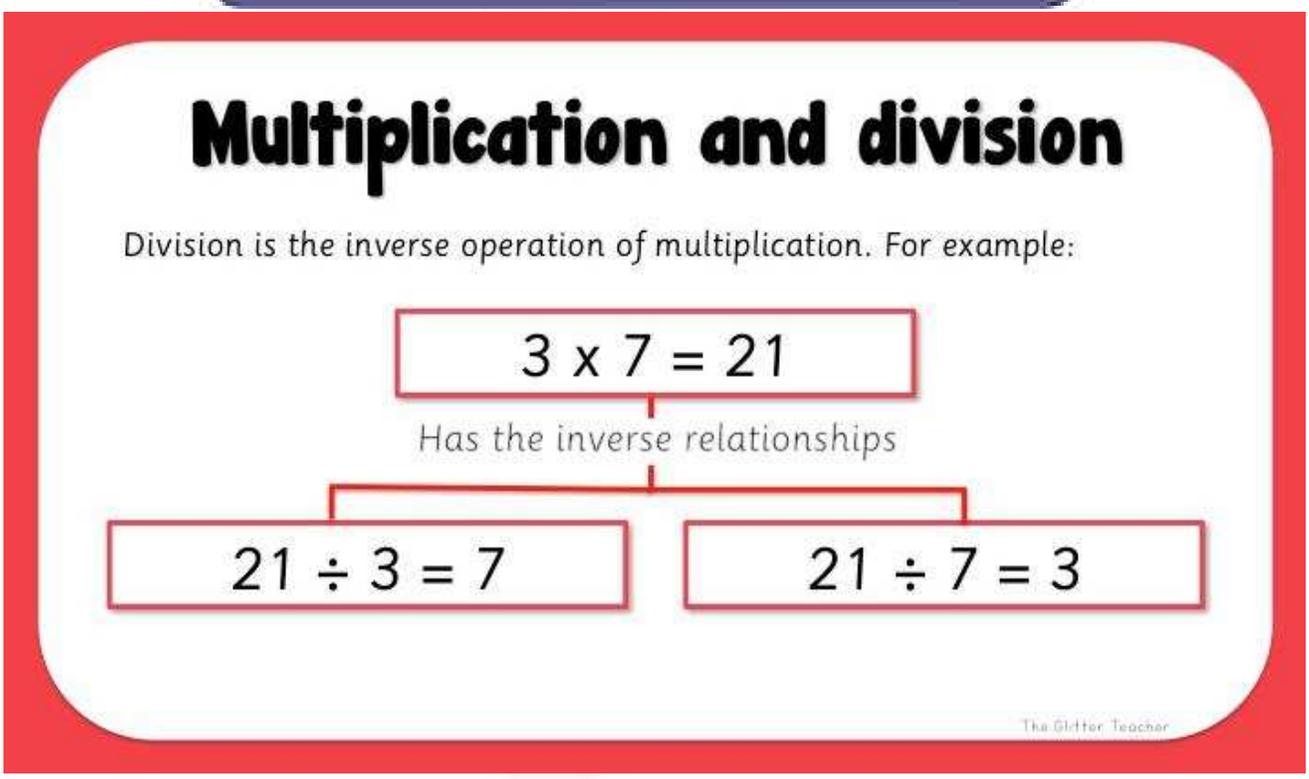
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Part 7: Division



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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

$4 \times 2 =$	8	$8 \div 2 =$	4	$8 \div 4 =$	2
$5 \times 6 =$		$30 \div 5 =$		$30 \div 6 =$	
$3 \times 4 =$		$12 \div 4 =$		$12 \div 3 =$	
$5 \times 2 =$		$10 \div 2 =$		$10 \div 5 =$	
$6 \times 1 =$		$6 \div 6 =$		$6 \div 1 =$	
$3 \times 6 =$		$18 \div 3 =$		$18 \div 6 =$	
$7 \times 9 =$		$63 \div 9 =$		$63 \div 7 =$	
$5 \times 4 =$		$20 \div 4 =$		$20 \div 5 =$	
$5 \times 3 =$		$15 \div 3 =$		$15 \div 5 =$	
$7 \times 3 =$		$21 \div 3 =$		$21 \div 7 =$	
$10 \times 8 =$		$80 \div 10 =$		$80 \div 8 =$	
$7 \times 5 =$		$35 \div 7 =$		$35 \div 5 =$	
$2 \times 9 =$		$18 \div 2 =$		$18 \div 9 =$	
$4 \times 6 =$		$24 \div 6 =$		$24 \div 4 =$	
$5 \times 9 =$		$45 \div 9 =$		$45 \div 5 =$	

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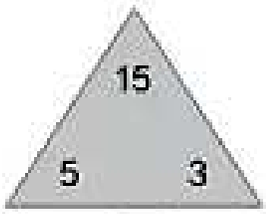
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

$4 \div 2 =$	
$8 \div 2 =$	
$6 \div 2 =$	
$12 \div 2 =$	
$18 \div 3 =$	
$20 \div 2 =$	
$30 \div 2 =$	
$24 \div 2 =$	
$28 \div 2 =$	
$32 \div 2 =$	

$12 \div 3 =$	
$9 \div 3 =$	
$36 \div 3 =$	
$15 \div 3 =$	
$18 \div 3 =$	
$21 \div 3 =$	
$6 \div 3 =$	
$24 \div 3 =$	
$27 \div 3 =$	
$30 \div 3 =$	

AHMED HETA



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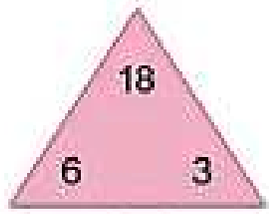

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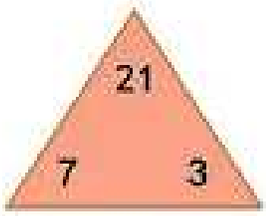

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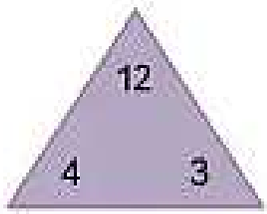

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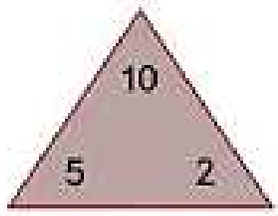

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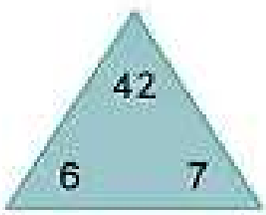

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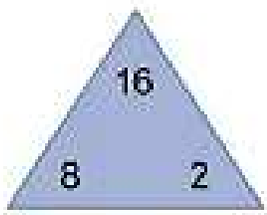

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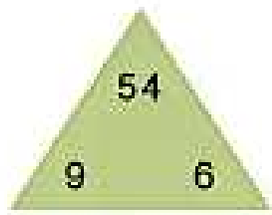

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□ ÷ □ = □
□ ÷ □ = □

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

1)	4 x 3 = 12	means	12 ÷ 4 = 3	and	12 ÷ 3 = 4
2)	5 x 2 = 10	means		and	
3)	6 x 3 = 18	means		and	
4)	10 x 4 = 40	means		and	
5)	3 x 5 = 15	means		and	
6)	8 x 2 = 16	means		and	
7)	7 x 5 = 35	means		and	
8)	6 x 10 = 60	means		and	
9)	5 x 6 = 30	means		and	
10)	3 x 9 = 27	means		and	
11)	4 x 6 = 24	means		and	
12)	8 x 3 = 24	means		and	
13)	2 x 9 = 18	means		and	
14)	4 x 9 = 36	means		and	
15	6 x 7 = 42	means		and	

AHMED HETA
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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

1)	$10 \div 2$	=		19)	$10 \div 5$	=	
2)	$3 \div 3$	=		20)	$9 \div 3$	=	
3)	$6 \div 3$	=		21)	$6 \div 2$	=	
4)	$12 \div 4$	=		22)	$0 \div 2$	=	
5)	$5 \div 5$	=		23)	$25 \div 5$	=	
6)	$5 \div 1$	=		24)	$4 \div 1$	=	
7)	$12 \div 3$	=		25)	$15 \div 5$	=	
8)	$8 \div 2$	=		26)	$16 \div 4$	=	
9)	$0 \div 4$	=		27)	$5 \div 1$	=	
10)	$4 \div 2$	=		28)	$15 \div 3$	=	
11)	$2 \div 1$	=		29)	$3 \div 1$	=	
12)	$4 \div 4$	=		30)	$0 \div 5$	=	
13)	$0 \div 1$	=		31)	$20 \div 5$	=	
14)	$8 \div 4$	=		32)	$0 \div 3$	=	
15)	$1 \div 1$	=		33)	$20 \div 4$	=	
16)	$10 \div 5$	=		34)	$12 \div 3$	=	
17)	$4 \div 1$	=		35)	$5 \div 5$	=	
18)	$6 \div 2$	=		36)	$10 \div 2$	=	

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

1)	___ ÷ 2	=	2	21)	10 ÷ ___	=	5
2)	___ ÷ 3	=	1	22)	___ ÷ 4	=	3
3)	___ ÷ 4	=	2	23)	___ ÷ 2	=	4
4)	___ ÷ 2	=	5	24)	25 ÷ ___	=	5
5)	___ ÷ 5	=	2	25)	8 ÷ ___	=	2
6)	___ ÷ 1	=	4	26)	___ ÷ 3	=	5
7)	___ ÷ 3	=	3	27)	___ ÷ 2	=	1
8)	___ ÷ 4	=	1	28)	15 ÷ ___	=	3
9)	___ ÷ 5	=	4	29)	6 ÷ ___	=	3
10)	___ ÷ 3	=	2	30)	___ ÷ 4	=	5
11)	10 ÷ ___	=	2	31)	___ ÷ 3	=	4
12)	6 ÷ ___	=	3	32)	12 ÷ ___	=	3
13)	8 ÷ ___	=	4	33)	16 ÷ ___	=	4
14)	20 ÷ ___	=	4	34)	___ ÷ 5	=	0
15)	3 ÷ ___	=	3	35)	4 ÷ ___	=	4
16)	4 ÷ ___	=	1	36)	6 ÷ ___	=	2
17)	12 ÷ ___	=	4	37)	___ ÷ 2	=	5
18)	12 ÷ ___	=	3	38)	20 ÷ ___	=	5
19)	15 ÷ ___	=	3	39)	___ ÷ 5	=	4
20)	2 ÷ ___	=	1	40)	5 ÷ ___	=	5

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

DIVISION FACTS – 2 TIMES TABLE

1) 6 ÷ 2 = ____ 2) 10 ÷ 2 = ____ 3) 2 ÷ 2 = ____

4) 20 ÷ 2 = ____ 5) 14 ÷ 2 = ____ 6) 8 ÷ 2 = ____

7) 16 ÷ 2 = ____ 8) 12 ÷ 2 = ____ 9) 18 ÷ 2 = ____

DIVISION FACTS – 10 TIMES TABLE

1) 30 ÷ 10 = ____ 2) 40 ÷ 10 = ____ 3) 0 ÷ 10 = ____

4) 50 ÷ 10 = ____ 5) 80 ÷ 10 = ____ 6) 20 ÷ 10 = ____

7) 100 ÷ 10 = ____ 8) 70 ÷ 10 = ____ 9) 10 ÷ 10 = ____

DIVISION FACTS – 5 TIMES TABLE

1) 20 ÷ 5 = ____ 2) 5 ÷ 5 = ____ 3) 25 ÷ 5 = ____

4) 10 ÷ 5 = ____ 5) 35 ÷ 5 = ____ 6) 40 ÷ 5 = ____

7) 30 ÷ 5 = ____ 8) 50 ÷ 5 = ____ 9) 45 ÷ 5 = ____

DIVISION FACTS – 3 TIMES TABLE

1) 6 ÷ 3 = ____ 2) 12 ÷ 3 = ____ 3) 9 ÷ 3 = ____

4) 3 ÷ 3 = ____ 5) 15 ÷ 3 = ____ 6) 24 ÷ 3 = ____

7) 21 ÷ 3 = ____ 8) 30 ÷ 3 = ____ 9) 27 ÷ 3 = ____

DIVISION FACTS – 4 TIMES TABLE

1) 0 ÷ 4 = ____ 2) 20 ÷ 4 = ____ 3) 8 ÷ 4 = ____

4) 28 ÷ 4 = ____ 5) 16 ÷ 4 = ____ 6) 40 ÷ 4 = ____

7) 32 ÷ 4 = ____ 8) 24 ÷ 4 = ____ 9) 36 ÷ 4 = ____

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

1) ant walks 5 km every day , how many km did it walk in 7 days ?

.....

2) lili bought 8 cookies and she want to share it with her 4 friends how many cookie will every one take ?

.....

3) A rocket takes 7 seconds to travel one kilometer. How many seconds dose it take to travel 4 kilometers?

.....

4) A bag of orange holds 4 oranges. How many oranges are in 8 bags?

.....

5) Ahmed has 20 oranges. He wants to divide them equally between 5 baskets. How many oranges will be in each basket?

.....

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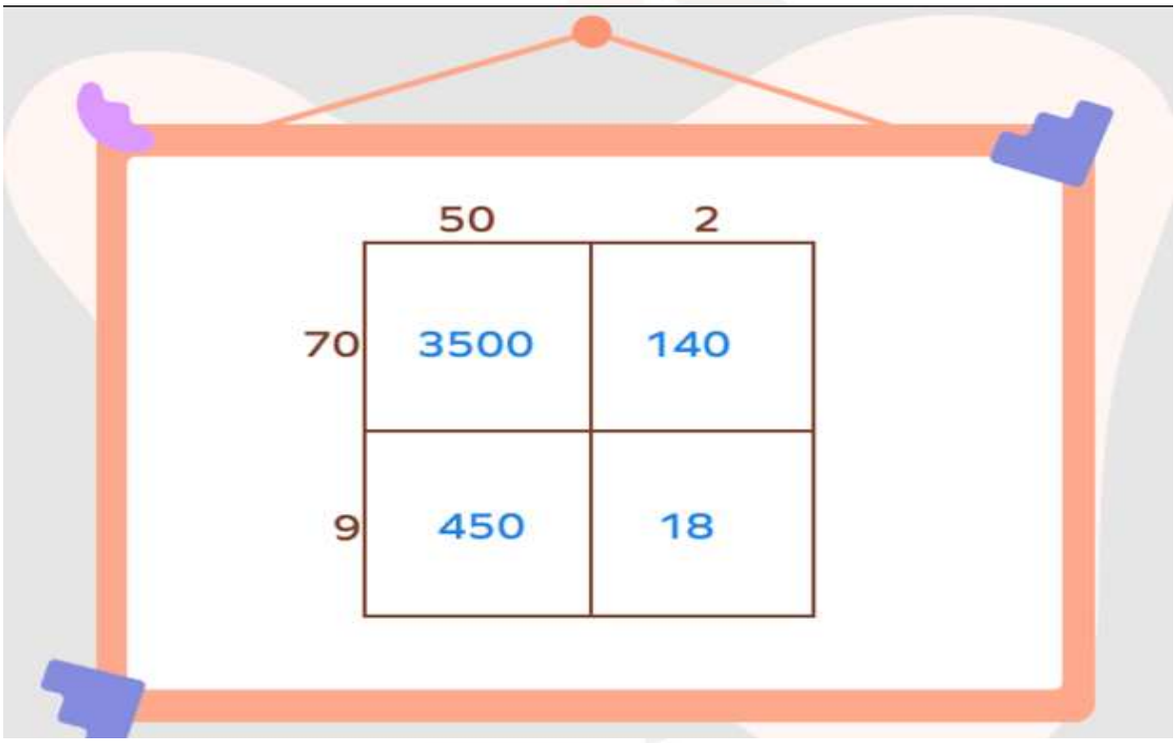
Part 8: New curriculum strategies

Area model strategy

If we want to make 52×79



$$\begin{array}{r} 3500 \\ +\ 140 \\ +\ 450 \\ +\ \ 18 \\ \hline 4108 \end{array}$$

So, $52 \times 79 = 4108$

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Drop the zeros then multiply .....

2 x 10 =	200		4 x 40 =	1600
3 x 100 =	300		5 x 300 =	1500
40 x 10 =			20 x 40 =	
600 x 100 =			100 x 10 =	
1 x 200 =			30 x 30 =	
3 x 50 =			20 x 600 =	
120 x 100 =			100 x 90 =	
4 x 60 =			10 x 700 =	
70 x 20 =			30 x 400 =	
6 x 200 =			60 x 30 =	
80 x 10 =			50 x 50 =	
3 x 1000 =			320 x 10 =	
5 x 10000 =			300 x 200 =	
8 x 20 =			10 x 20 =	
7 x 10 =			5 x 40 =	

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

1 a.	548 × 10 = _____	1 b.	436 × 1000 = _____
2 a.	24 × 10 = _____	2 b.	468 × 1000 = _____
3 a.	81 × 1000 = _____	3 b.	648 × 10 = _____
4 a.	194 × 1000 = _____	4 b.	1000 × 251 = _____
5 a.	310 × 10 = _____	5 b.	10 × 335 = _____
6 a.	1000 × 586 = _____	6 b.	10 × 111 = _____
7 a.	10 × 557 = _____	7 b.	1000 × 526 = _____
8 a.	47 × 1000 = _____	8 b.	212 × 1000 = _____
9 a.	10 × 85 = _____	9 b.	100 × 627 = _____
10 a.	183 × 1000 = _____	10 b.	100 × 637 = _____

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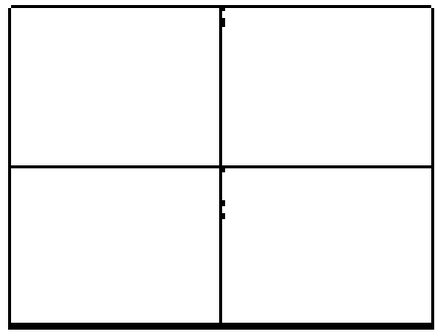
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

34 x 23 =

	20	3
30		
4		

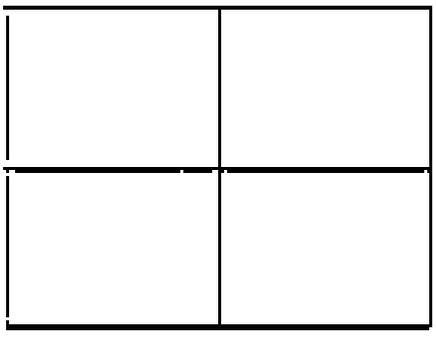
_____
\+ _____
\+ _____
\+ _____

40 x 32 =



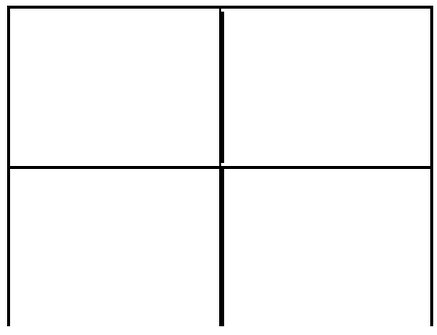
_____
\+ _____
\+ _____
\+ _____

58 x 27 =



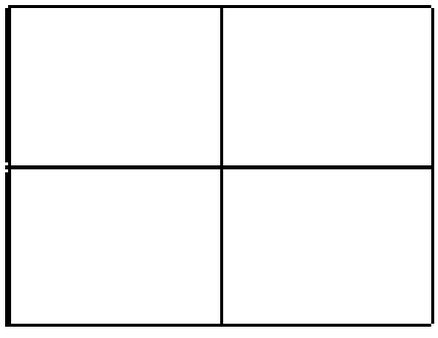
_____
\+ _____
\+ _____
\+ _____

83 x 19 =



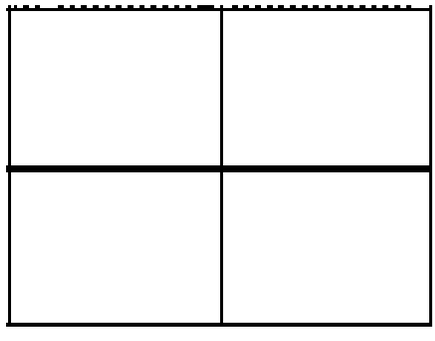
_____
\+ _____
\+ _____
\+ _____

34 x 44 =



_____
\+ _____
\+ _____
\+ _____

62 x 15 =



_____
\+ _____
\+ _____
\+ _____

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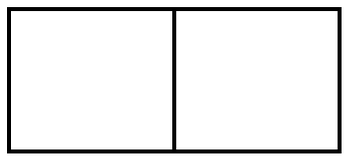
41 x 6 = 246

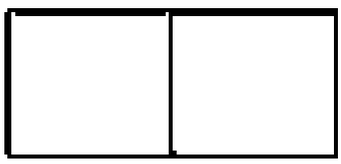
	40	1
6	240	6

240
+ 6
246

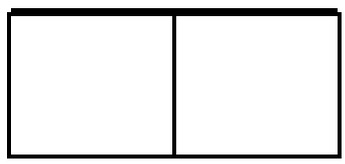
35 x 8 = ____



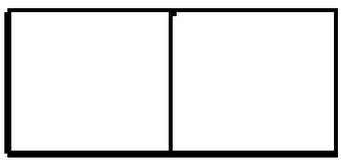
47 x 9 = ____



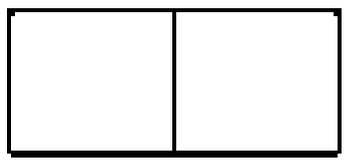
36 x 7 = ____



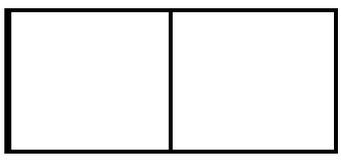
33 x 6 = ____



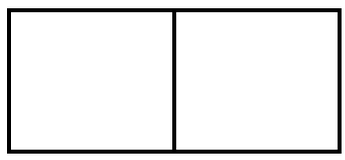
42 x 4 = ____



46 x 8 = ____



39 x 9 = ____



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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

1. 32 x 21

30 2

20	600	40
1	30	

600
40
30
+
672

2. 54 x 26

50 4

20		80
6		24

80
+ 24
+

3. 64 x 38

60 4

30		
8		

+

4. 24 x 23

+

5. 41 x 26

+

6. 52 x 34

+

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

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18 x 24 = ...

	10	8
20	200	160
4	40	32

200
160
40
32

432

26 x 29 = ...

35 x 17 = ...

AHMED HETA

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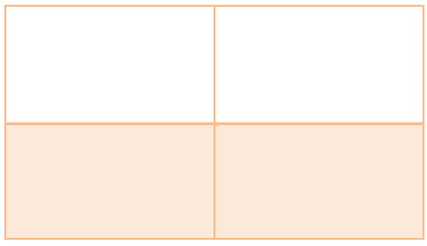
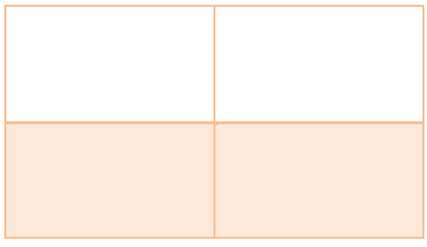
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

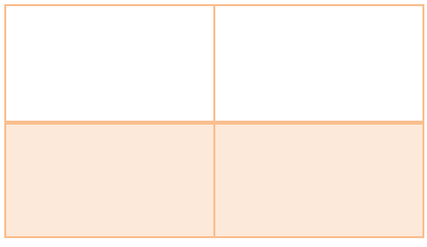
27 x 33 =



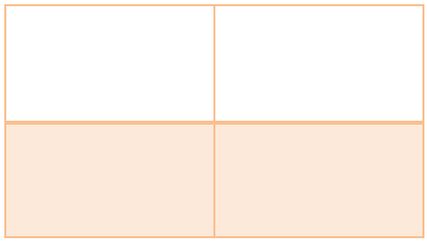
58 x 36 = …



46 x 55 = …



32 x 46 =



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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Partial product strategy

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Multiplying using partial product

13 x 27

	20	7
10	200	70
2	60	21

200
+ 60
+ 70
+ 21
351

Example

25 x 34 =

20 5 30 4

20 x 30 = 600 +
20 x 4 = 80 +
5 x 30 = 150 +
5 x 4 = 20

850

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Partial Products Multiplication

Solved

		1	2	(10 + 2)
	×	1	4	(10 + 4)
			8	= 4 × 2
		4	0	= 4 × 10
		2	0	= 10 × 2
+	1	0	0	= 10 × 10
	1	6	8	

		2	6	
	×	1	4	
				= ___ × ___
				= ___ × ___
				= ___ × ___
				= ___ × ___

		2	8	
	×	1	1	
				= ___ × ___
				= ___ × ___
				= ___ × ___
				= ___ × ___

		3	5	
	×	1	7	
				= ___ × ___
				= ___ × ___
				= ___ × ___
				= ___ × ___

		4	4	
	×	2	2	
				= ___ × ___
				= ___ × ___
				= ___ × ___
				= ___ × ___

		3	2	
	×	1	2	
				= ___ × ___
				= ___ × ___
				= ___ × ___
				= ___ × ___

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

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22 x 56 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

72 x 14 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

45 x 36 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

23 x 16 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

21 x 44 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

25 x 16 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

31 x 53 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

22 x 77 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

24 x 24 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

27 x 16 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

21 x 64 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

91 x 16 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

42 x 66 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

22 x 34 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

15 x 16 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

29 x 56 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

28 x 42 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

35 x 46 = …

= ___ × ___
= ___ × ___
= ___ × ___
= ___ × ___

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

Standard algorithm strategy

$$\begin{array}{r} 32 \\ \times\ 21 \\ \hline 32 \\ 640 \\ \hline 672 \end{array}$$

Steps

1. 1 x 2
2. 1 x 3
3. 0 placeholder
4. 2 x 2
5. 2 x 3
6. Add

$42 \times 22 = \boxed{924}$

$$\begin{array}{r} 4\ 2 \\ \times\ \boxed{2}\ (2) \\ \hline (8)\ (4) \\ {}^{1} \\ +\ \boxed{8}\ \boxed{4}\ 0 \\ \hline 9\ 2\ 4 \end{array}$$

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

Draft

23 x 45 = …

12 x 65 = …

34 x 17 = …

21 x 55 = …

38 x 67 = …

24 x 35 = …

11 x 19 = …

36 x 57 = …

14 x 25 = …

37 x 86 = …

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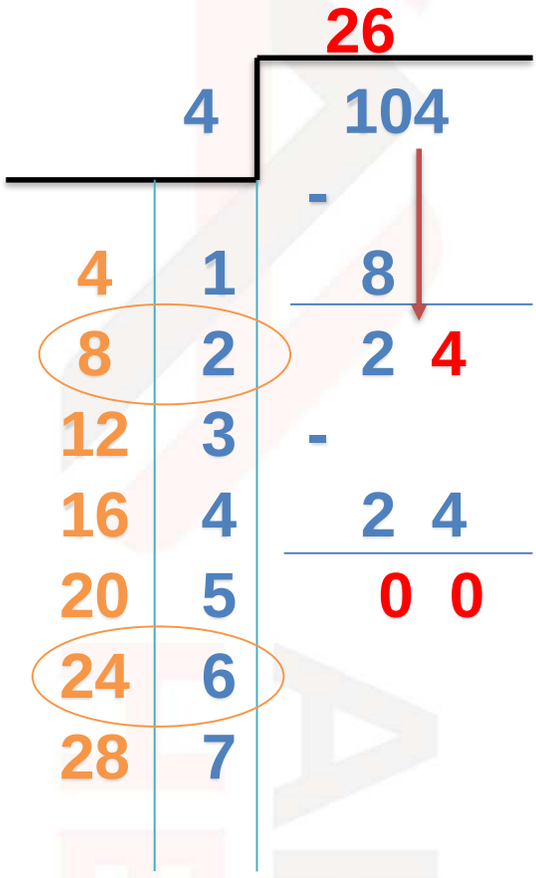
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

Standard algorithm strategy

(long division)



104 ÷ 5 = 26

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

180 ÷ 5 = …

126 ÷ 6 = …

182 ÷ 7 = …

195 ÷ 3 = …

134 ÷ 2 = …

Draft

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

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288 ÷ 8 = …

135 ÷ 9 = …

348 ÷ 4 = …

165 ÷ 3 = …

172 ÷ 2 = …

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

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144 ÷ 6 = …

315 ÷ 5 = …

380 ÷ 5 = …

255 ÷ 3 = …

248 ÷ 4 = …

Draft

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D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

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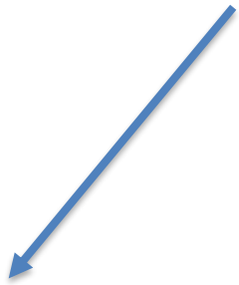
Point

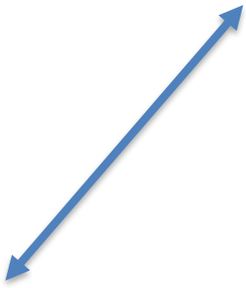
Line segment

(has start point and end point)



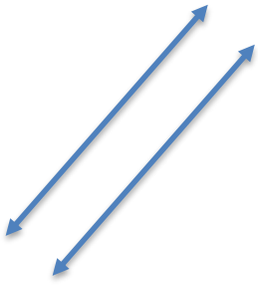
Ray

(has start point with no end point)

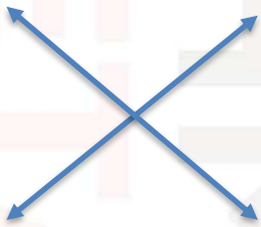


line

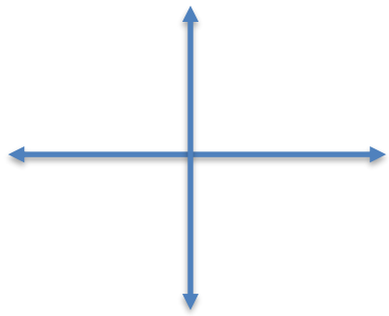
(has no start point and no end point)



Parallel



intersecting



perpendicular

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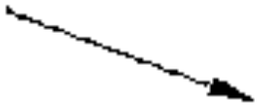
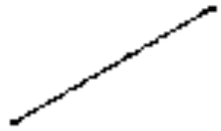
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي

AHMED HETA

Identify the Lines, Rays or Line Segments.

1) 

2)

3) 

4)

5)

6)

7)

8)

9)

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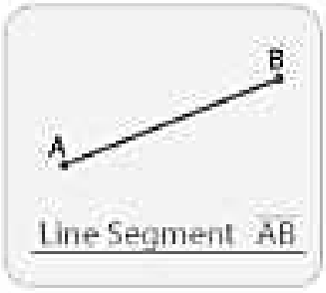
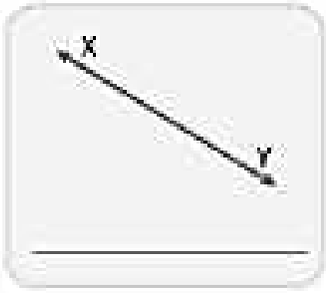
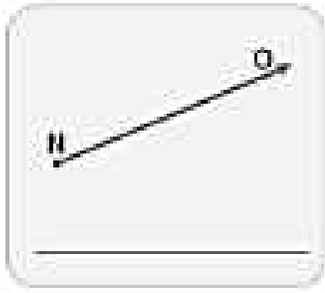
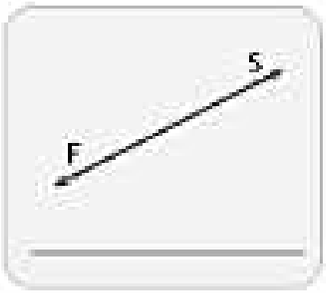
Name each line, line segment, ray or point by using words and symbols

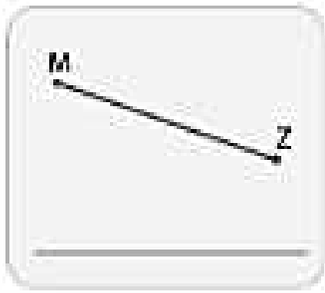


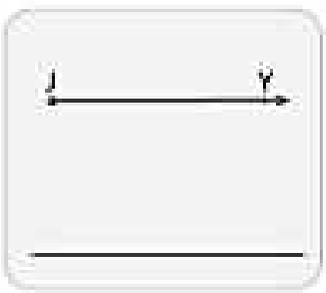
Line Segment $\overline{AB}$

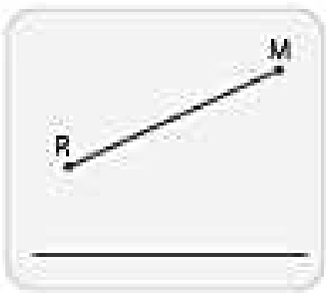


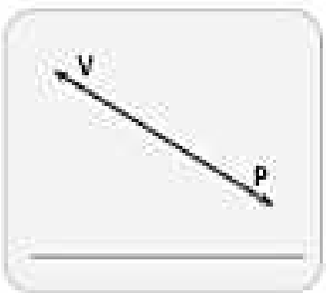


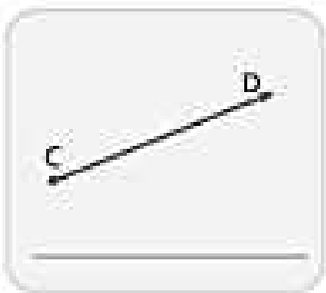


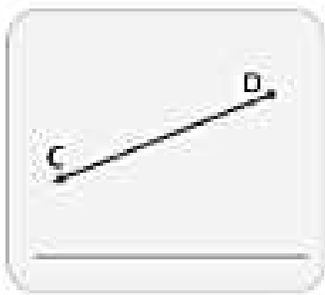












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Tick mark the correct option in each question.

1. What is this?

- [ ] 1. Line
- [x] 2. Line Segment
- [ ] 3. Ray

2. What is this?

- [ ] 1. Line
- [ ] 2. Line Segment
- [ ] 3. Ray

3. What is this?

- [ ] 1. Line
- [ ] 2. Line Segment
- [ ] 3. Ray

4. What is this?

- [ ] 1. Line
- [ ] 2. Point
- [ ] 3. Ray

5. Letter "A" represents a _____.

- [ ] 1. Line
- [ ] 2. Line Segment
- [ ] 3. Ray

6. Letter "B" represents a _____.

- [ ] 1. Line
- [ ] 2. Line Segment
- [ ] 3. Ray

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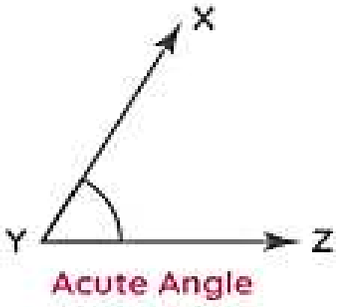
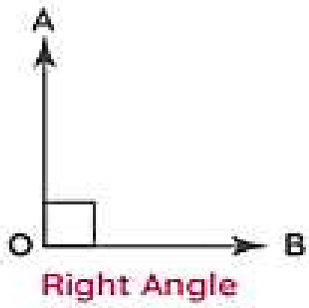
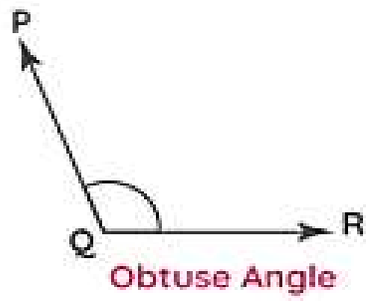


Acute Angle



Right Angle



Obtuse Angle

Straight Angle

Acute **Right** **Obtuse**

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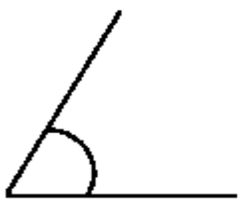
Acute angle	From 0º to 90º
Right angle	90º
Obtuse angle	From 90º to 180º
Straight angle	180º

Choose the right name for each angle..



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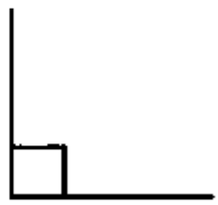

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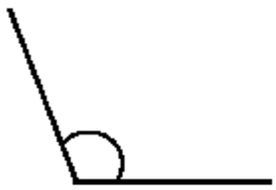

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Classify each angle as acute, obtuse, right, or straight.

1) _____

2) _____

3) _____

4) _____

5) _____

6) _____

7) _____

8) _____

9) _____

10) _____

11) 84° _____

12) 89° _____

13) 25° _____

14) 50° _____

15) 180° _____

16) 166° _____

17) 90° _____

18) 125° _____

19) 149° _____

20) 106° _____

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Classify and choose the correct angles

1) 70°
A) obtuse B) straight
C) acute D) right

2) 180°
A) right B) straight
C) acute D) obtuse

3) 90°
A) straight B) obtuse
C) right D) acute

4) 85°
A) straight B) right
C) obtuse D) acute

5) 121°
A) straight B) obtuse
C) right D) acute

6) 74°
A) right B) acute
C) straight D) obtuse

7) 92°
A) acute B) obtuse
C) right D) straight

8) 1°
A) straight B) right
C) obtuse D) acute

9) 178°
A) acute B) straight
C) obtuse D) right

10) 30°
A) obtuse B) right
C) straight D) acute

11) 4°
A) obtuse B) straight
C) acute D) right

12) 145°
A) acute B) obtuse
C) right D) straight

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Classify the given angles

1) 163°

2) 134°

3) 26°

4) 44°

5) 110°

6) 97°

7) 10°

8) 142°

9) 62°

10) 18°

11) 89°

12) 5°

13) 90°

14) 141°

15) 123°

16) 156°

17) 162°

18) 140°

19) 180°

20) 8°

Classify the given angles

1)

2)

3)

4)

5)

6)

7)

8)

9)

10)

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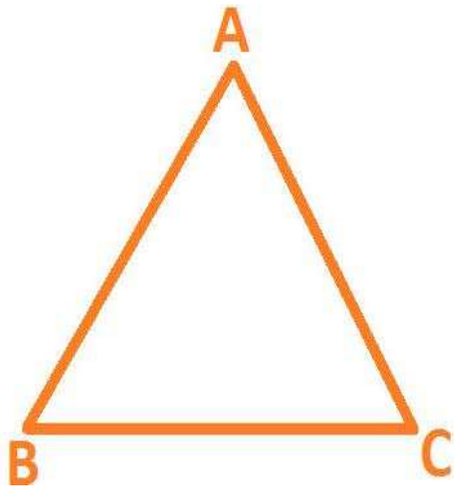
Triangle : is a polygon With 3 sides



Types of Triangles

By Side	By Angle
Equilateral Triangle has three equal sides	Acute triangle has three angles < 90°
Isosceles Triangle has two equal sides	Right triangle has one angle = 90°
Scalene Triangle has no equal sides	Obtuse triangle has one angle > 90°

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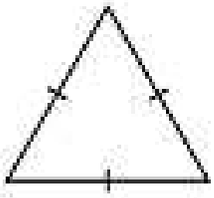
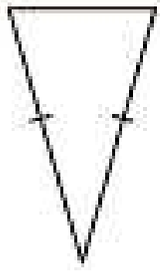
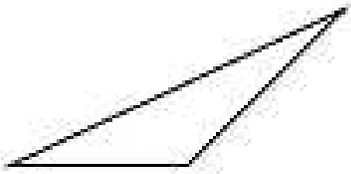
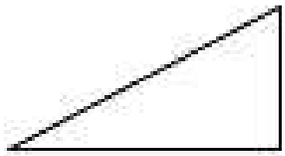
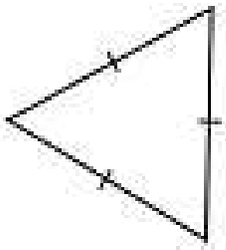
Identify the triangles as equilateral, isosceles, or scalene.

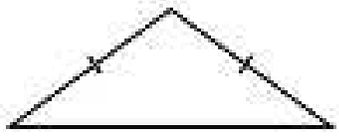
1) 

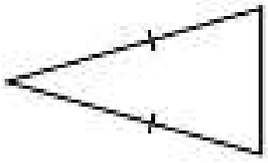
2) 

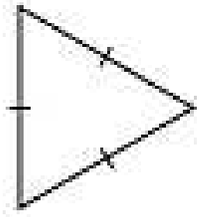
3) 

4) 

5) 

6) 

7) 

8) 

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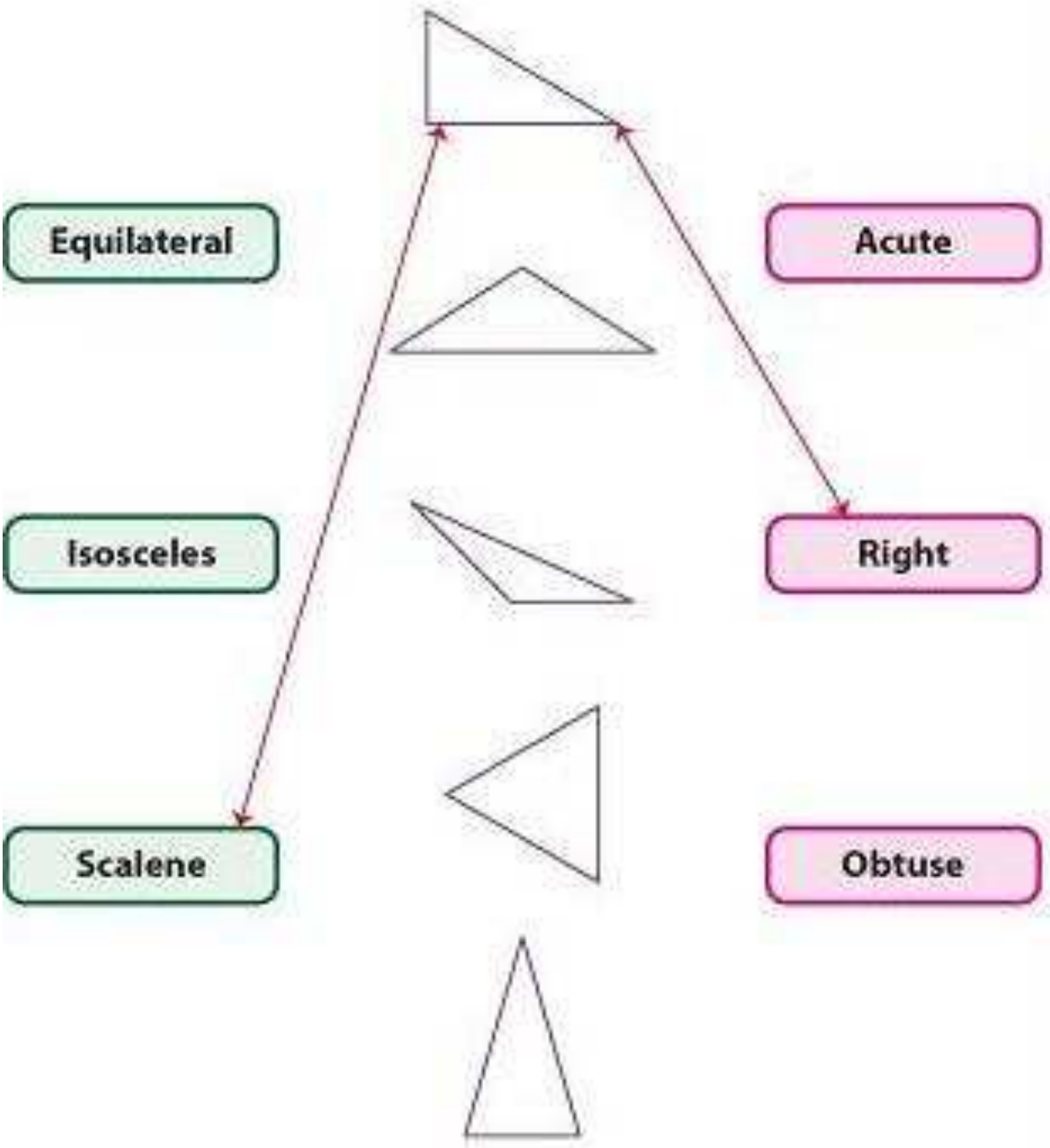

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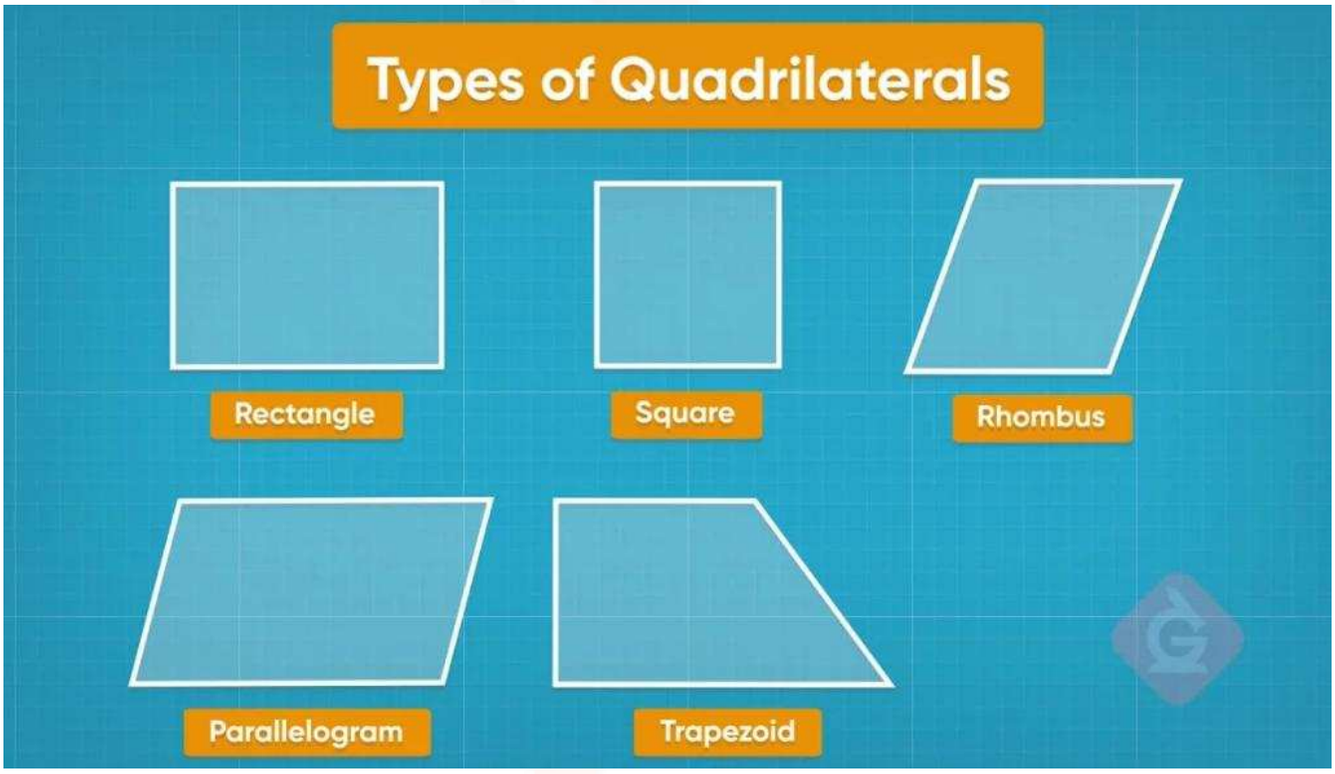
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي



Trapezoid: has one pair parallel lines

Parallelogram: has two parallel lines

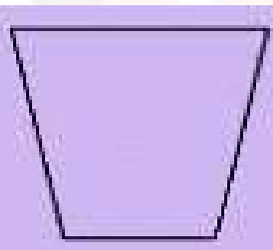
A) **rectangle**: has 4 right angles

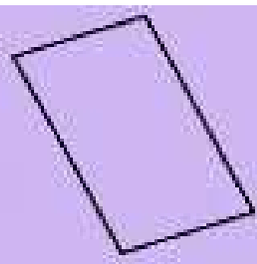
B) **rhombus**: has 4 equal sides

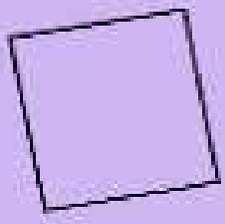
c) **square**: has 4 equal angles and 4 equal sides

1)

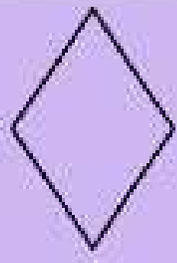
rectangle

2) 

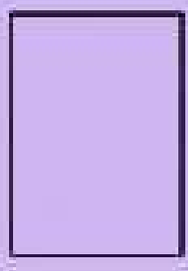
3) 

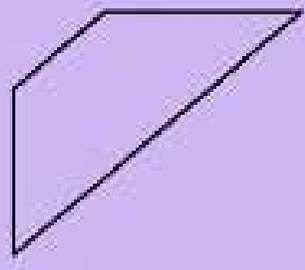
4) 

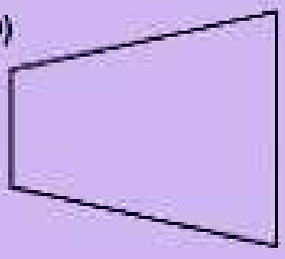
5)

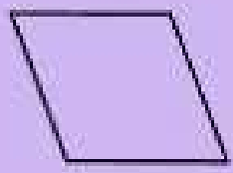
6) 

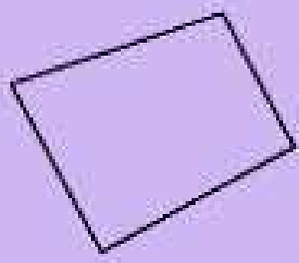
7)

8) 

9) 

10) 

11) 

12) 

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Complete

1) a quadrilateral has 4 equal sides is ……

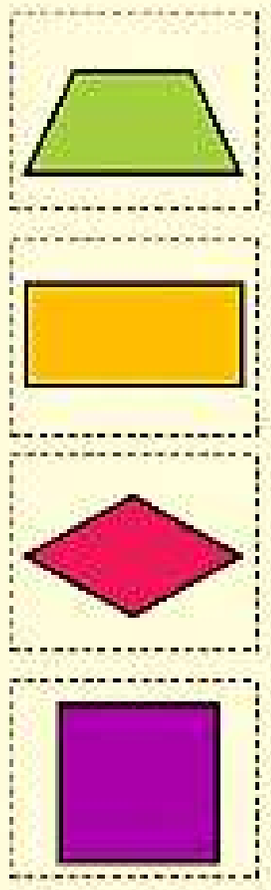
2) a quadrilateral has one pair parallel lines is ……

3) A triangle has 2 equal sides is ……. Triangle

4) A quadrilateral has two parallel lines is ……

5) A quadrilateral has 4 right angles is ……

Name	Picture
Square	
Rectangle	
Rhombus	
Trapezoid	



Part 10 : Additional mathematical skills

Skip counting

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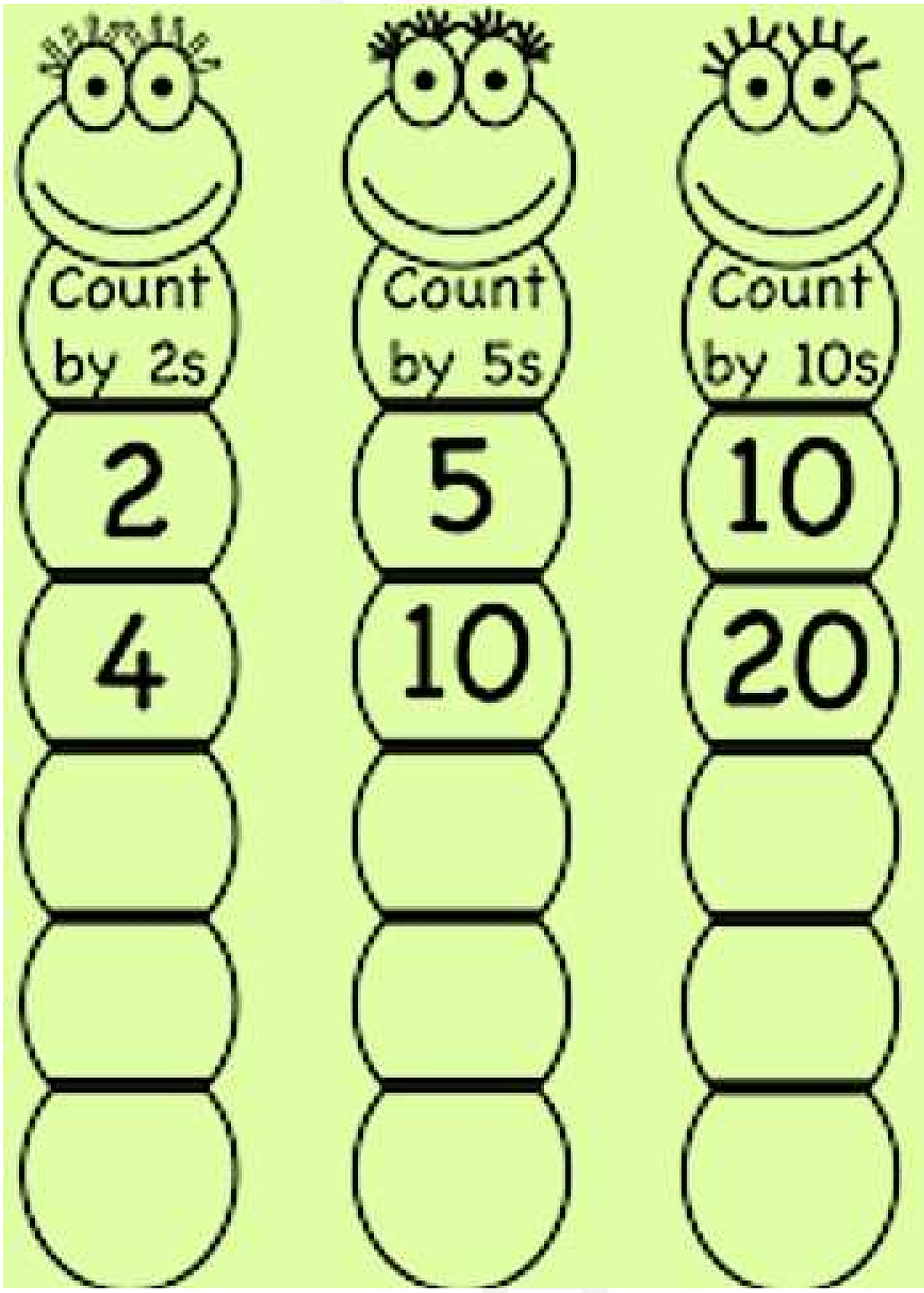

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Complete the pattern

1) 2 , 4 , 6 , 8 , ... , ... , ... , ... , ...
2) 3 , 6 , 9 , ... , ... , ... , ... , ... , ...
3) 5 , 10 , 15 , 20 , ... , ... , ... , ... , ...
4) 10 , 20 , 30 , ... , ... , ... , ... , ... , ...
5) 22 , 20 , 18 , 16 , ... , ... , ... , ... , ...
6) 12 , 14 , 16 , ... , ... , ... , ... , ... , ...
7) 100 , 200 , 300 , ... , ... , ... , ... , ...
8) 11 , 22 , 33 , ... , ... , ... , ... , ... , ...
9) 60 , 70 , 80 , ... , ... , ... , ... , ... , ...
10) 4 , 8 , 12 , ... , ... , ... , ... , ... , ...
11) 6 , 12 , 18 , ... , ... , ... , ... , ... , ...
12) 80 , 75 , 70 , ... , ... , ... , ... , ... , ...
13) 20 , 40 , 60 , ... , ... , ... , ... , ... , ...
14) 100 , 98 , 96 , ... , ... , ... , ... , ... , ...
15) 0 , 7 , 14 , ... , ... , ... , ... , ... , ... , ...
16) 67 , 64 , 61 , ... , ... , ... , ... , ... , ... , ...
17) 0 , 2 , 4 , ... , ... , ... , ... , ... , ... , ...
18) 9 , 18 , 27 , ... , ... , ... , ... , ... , ...
19) 98 , 94 , 90 , ... , ... , ... , ... , ... , ...
20) 12 , 24 , 36 , ... , ... , ... , ... , ... , ...

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Even and Odd Numbers

Even Numbers end in

0 2 4 6 8

Examples: 4, 56, 730

Odd Numbers end in

1 3 5 7 9

Examples: 9, 83, 641

Write Even or Odd beside the numbers.

5	odd	48	even
66	even	95	odd
34		62	
20		58	
46		94	
71		14	
51		27	
80		42	
79		22	
73		69	
37		9	
2		17	

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Prime Numbers to 100

A **prime number** is a whole number that has exactly two factors, 1 and itself

2	3	5	7	11
13	17	19	23	29
31	37	41	43	47
53	59	61	67	71
73	79	83	89	97

Directions: Circle the prime numbers.

٩	37	24	29
79	48	26	51
76	70	83	5
59	11	٩4	31
4	50	68	45
36	71	٩2	53
43	40	19	28

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Really big numbers

Let's think about this number " 3,672,845 "

Hundred million	Ten million	million	Hundred thousands	Ten thousands	Thousands	hundred	tens	Ones
		3	6	7	2	8	4	5

The value of "3" is 3000000
The value of "6" is 600000
The value of "7" is 70000
The value of "2" is 2000
The value of "8" is 800
The value of "4" is 40
The value of "5" is 5

Example

The number	Hundred million	Ten million	million	Hundred thousands	Ten thousands	Thousands	hundred	tens	Ones
873267123									
29743928									
983554321									
6368743									

Choose the correct answer for the mathematics questions below.

1. What is the value of the 8 in the number 9,864?
   a. 8,000 b. 800 c. 80

2. What is the value of the 5 in the number 735,241?
   a. 5,000 b. 50,000 c. 50

3. What is the value of the 7 in the number 4,973,128?
   a. 700 b. 70,000 c. 7,000

4. What is the value of the 8 in the number 95,863?
   a. Eight thousand b. eight hundred c. eight thousand

5. What is the value of the 2 in the number 563,829?
   a. Two b. two million c. twenty

6. Which choice has 8 with the value of 80,000?

   a. 583 b. 89,724 c. 8,573

7. Which choice has a 6 with the value of 600,000?

   a. 836,547 b. 589,672 c. 699,581

8. What digit is in the ten thousands place in the number 9,142,387?

   a. 2 b. 4 c. 1

9. What digit is in the millions place in the number 7,631,942?

   a. 7 b. 6 c. 9

10. What digit is in the billions place in the number 42, 398, 001, 673?

    a. 8 b. 2 c. 4

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The number	The value	The place value
4,325,526,412	.....	.....
8,523,256,412	.....	.....
2,732,154,546	.....	.....
5,124,652,487	.....	.....
1,541,656,218	.....	.....
9,148,562,487	.....	.....
4,562,732,154	.....	.....

6 , 1 , 5 , 3 , 8 , 4

The greatest number : 865431 The smallest number: 134568

7 , 0 , 2 , 9 , 4 , 1

The greatest number : ..... The smallest number : .....

0 , 9 , 6 , 3 , 8 , 7

The greatest number : ..... The smallest number : .....

1 , 8 , 4 , 0 , 5 , 3 , 2 , 9

The greatest number : ..... The smallest number : .....

8 , 1 , 2 , 4 , 0 , 5 , 3 , 7 , 6

The greatest number : ..... The smallest number : .....

Compare the numbers. Add: > or < or =

1. 415,978 __ 144,173
2. 923,476 __ 22,786
3. 123,921 __ 514,714
4. 708,395 __ 12,814
5. 743,677 __ 932,721
6. 55,666 __ 675,365
7. 868,527 __ 236,029
8. 529,133 __ 778,352
9. 381,484 __ 485,227
10. 159,435 __ 992,949
11. 340,844 __ 947,317
12. 77,924 __ 476,104
13. 582,500 __ 168,439
14. 700,179 __ 839,243
15. 962,665 __ 251,458
16. 280,053 __ 738,889
17. 842,782 __ 220,852
18. 886,579 __ 13,034

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Choose

1) The place value of 7 in 375,890 is ……..

a)Tens b)Ones c) Ten Thousands

2) What is the place value of the colored digit in 149000 …… ?

a) Thousands b) Ones c) Hundred Thousands

3) 934501 the digit 1 here is in the …….. Place.

a) Ones b) Hundreds c) 100

4) The place value of the digit 3 in 74308 is ……

a) Tens b) Ones c) Hundreds

Complete

1) The place value of 9 in 925670 is …….

2) The place value of 3 in 915283 0 is ……..

3) What is the place value of 6 in 265094 ……..

4) What is the place value of 4 in 649274 ……

5) The digit 1 in 647123 is in the …….. Place.

6) The digit 7 in 324708 is in the ……....place.

7) The place value of the underlined digit in 836908 is ……

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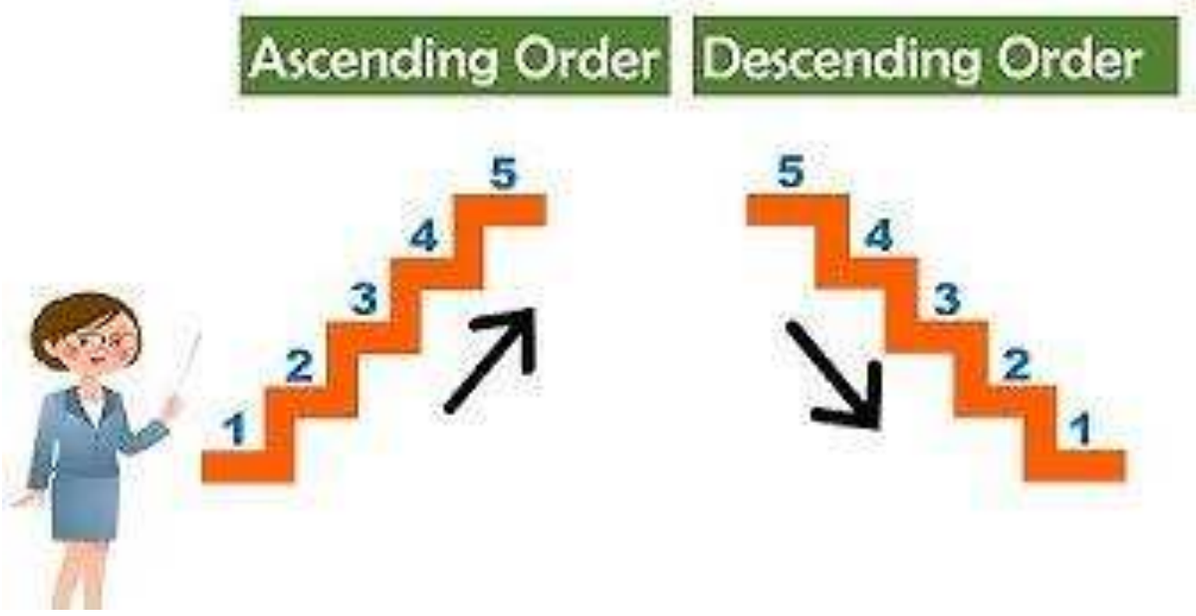
Ascending and descending order



AHMED HETA

Arrange the numbers in descending order-

Big ----------small

27	45	83	72	43

23	50	48	32	74

Arrange the numbers in Ascending order-

Small ----------Big

36	45	28	9	54

69	44	57	32	15

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AHMED HETA

Arrange the numbers in ascending order.

745	820	615	509
303	128	491	212
837	528	684	769
1,242	4,706	3,443	2,365

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AHMED HETA

Arrange the numbers in Ascending order-

Small ----------Big

30	34	75	46	25	49

40	39	57	75	44	10

90	40	65	30	50	10

69	99	47	15	58	3

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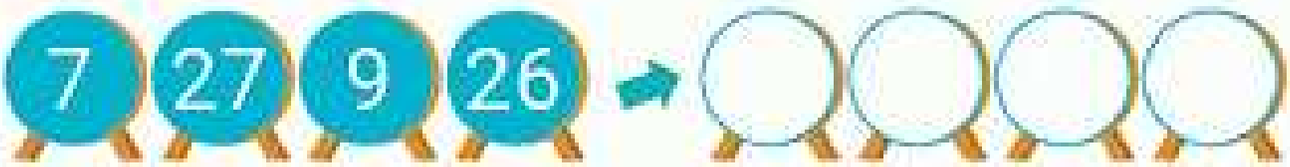
AHMED HETA

Write the numbers from smallest to biggest.



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AHMED HETA

Arrange these numbers in descending order. Begin with the largest.

1. 27 31 4 85 69

2. 392 479 181 265 507

3. 445 45 514 415 54

4. 808 800 8 880 80

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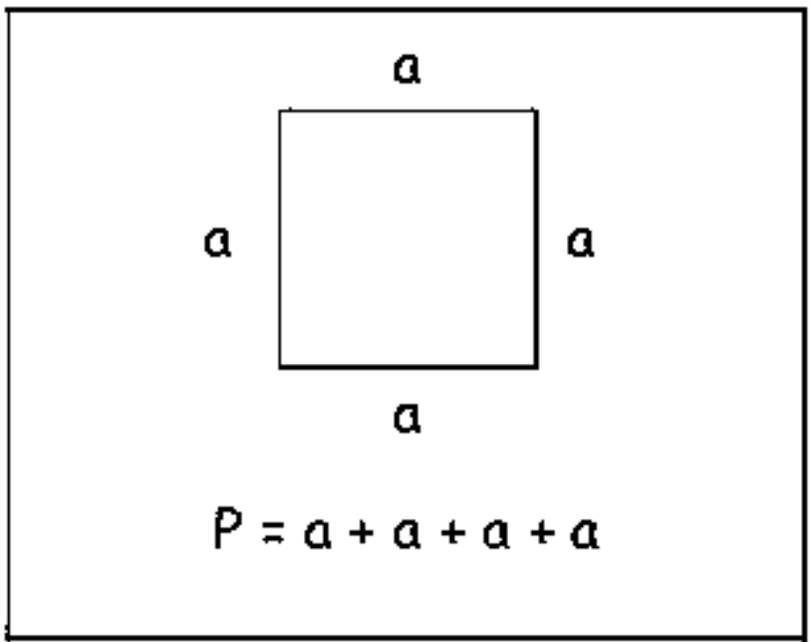
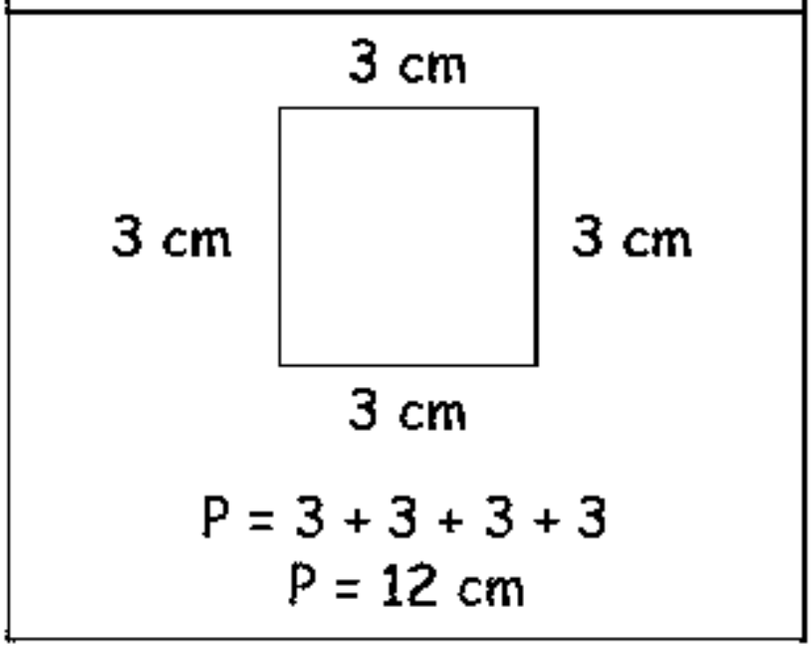
7218 + 9219	8410 + 4325	4919 + 4060	9411 + 2804	6275 + 8030
9202 + 6338	2877 + 6036	8151 + 1993	5351 + 2703	6692 + 8472
1053 + 6706	3916 + 2779	1594 + 4606	8486 + 9727	5628 + 3974
5455 + 7738	2575 + 5292	9680 + 5587	5458 + 9472	3003 + 1075
1340 + 9921	7281 + 7901	7071 + 7210	2323 + 4843	9231 + 6249

700796 − 696332	620626 − 469070	518482 − 449568	965769 − 667460
994464 − 327576	814089 − 605846	793275 − 186882	851264 − 671861
551957 − 160650	849563 − 563922	625595 − 228318	705608 − 644069
764238 − 412734	852898 − 832012	953027 − 792208	308258 − 268264
649516 − 242116	362319 − 152429	212570 − 168997	828644 − 275730

Perimeter and Area

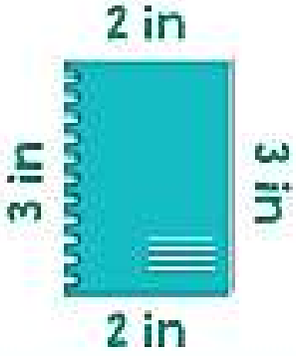
Perimeter is plus for all sides





AHMED HETA

In each row, check the correct perimeter.



5 ☐ 10 ☐ 15 ☐

12 ☐ 8 ☐ 16 ☐

25 ☐ 20 ☐ 24 ☐

24 ☐ 20 ☐ 12 ☐

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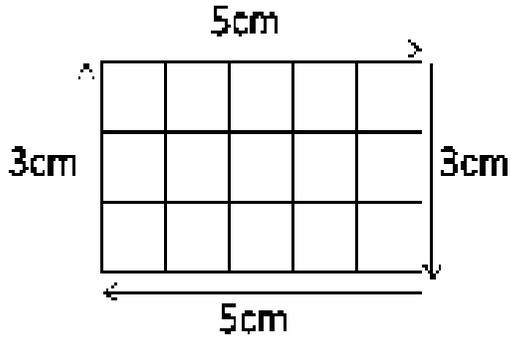
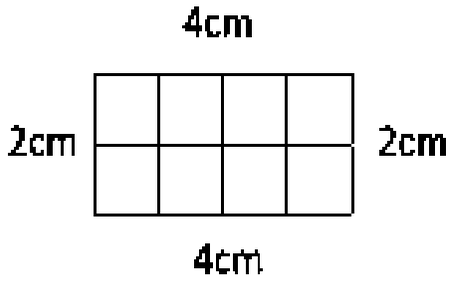
To find the perimeter of a rectangle, simply work out the distance all the way round the outside of the rectangle. The perimeter of the rectangle below is 5 + 3 + 5 + 3 = 16cm.



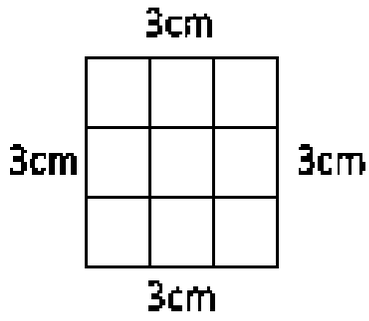
Work out the perimeter of the following rectangles:

1)



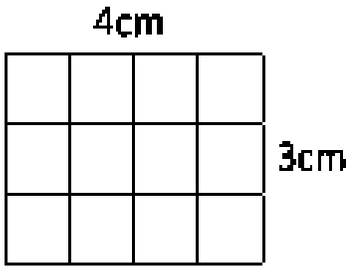
Perimeter = _____ cm

2)



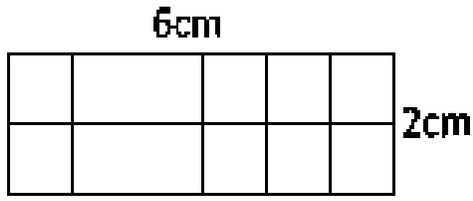
Perimeter = _____ cm

3)



Perimeter = _____ cm

4)



Perimeter = _____ cm

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Work out the perimeter of the following rectangles. They are not to scale.

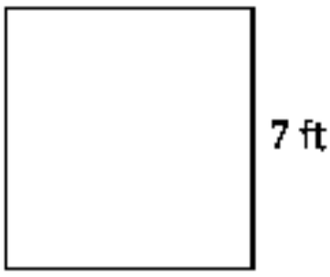
1)

Perimeter = _____ cm

2)

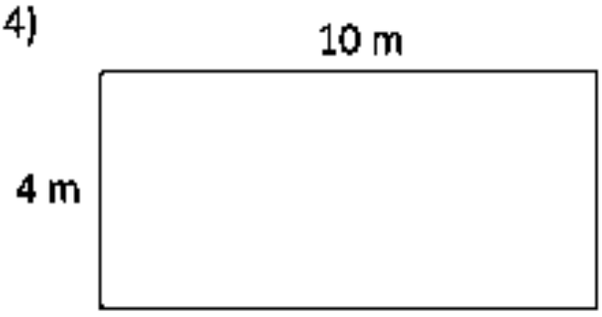
Perimeter = _____ in

3)



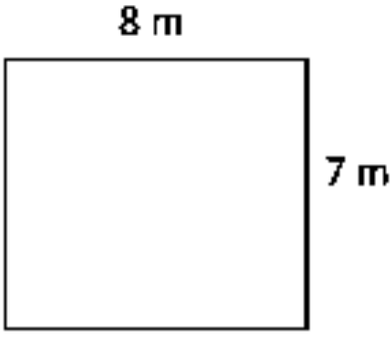
Perimeter = _____ ft

4)



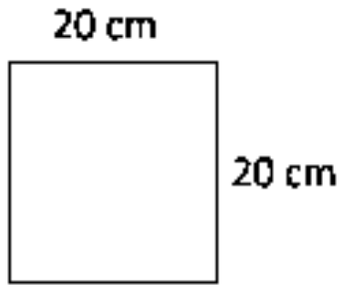
Perimeter = _____ m

5)



Perimeter = _____ m

6)



Perimeter = _____ cm

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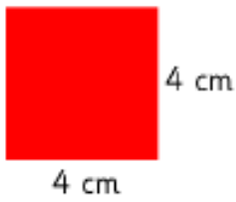
RECTANGLE	PERIMETER
1) A rectangle measuring 3cm by 4cm.	_____ cm
2) A square with side 5cm.	_____
3) A rectangle with sides 5mm and 8mm. 4) A square with sides of 20 m	_____ _____
5) A rectangle with sides 5cm and 7cm.	_____
6) A rectangle with sides 13 cm and 10 cm.	_____
7) A rectangle with sides 4 cm and 11 cm.	_____
8) A square with sides of 12 cm.	_____
9) A rectangle with sides 20 mm and 15 mm.	_____

AHMED HETA

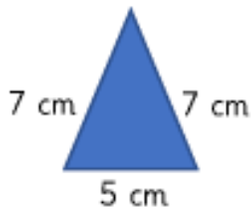
Please help me to work out the perimeters of these shapes (not drawn to scale).
The perimeter is the distance around the edge of a 2D shape.

1.



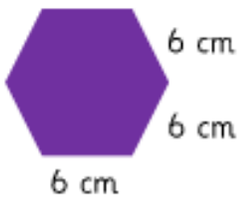
The perimeter is ☐

2.



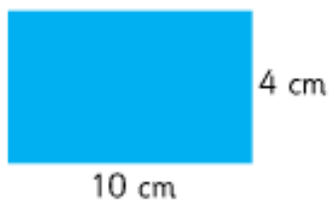
The perimeter is ☐

3.



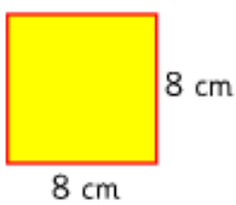
The perimeter is ☐

4.



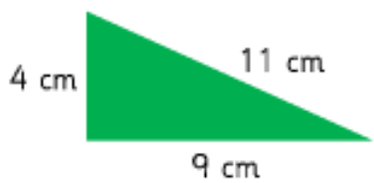
The perimeter is ☐

5.



The perimeter is ☐

6.

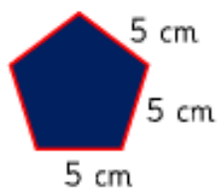


The perimeter is ☐

7.

The perimeter is ☐

8.



The perimeter is ☐

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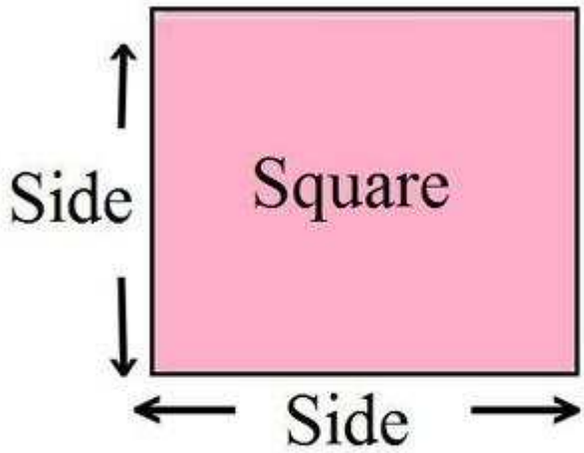
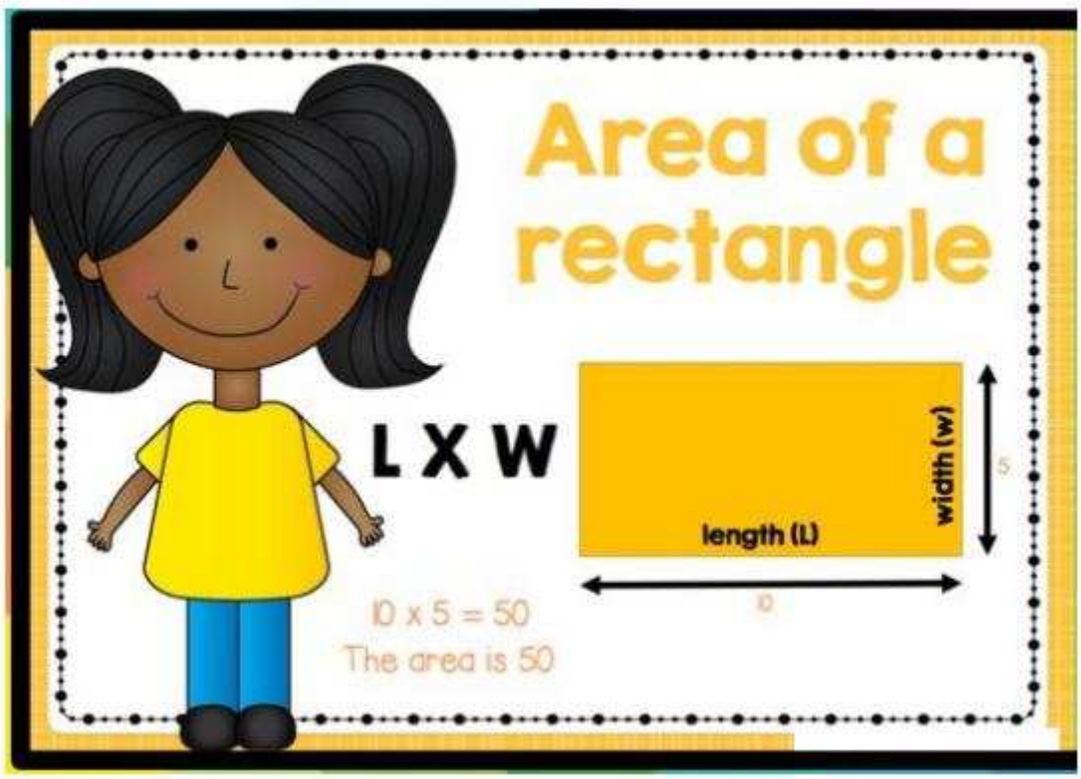
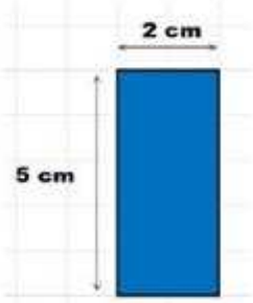


$$\text{Area} = \text{side} \times \text{side}$$



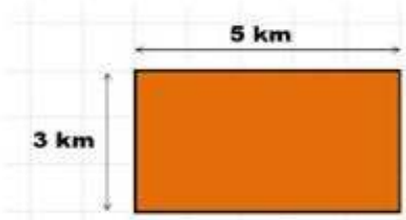
AHMED

Calculate the area and perimeter for each figure.



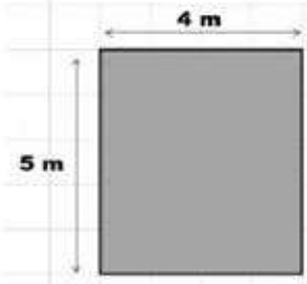
Area: ..... centimeters square

Perimeter: .....cm



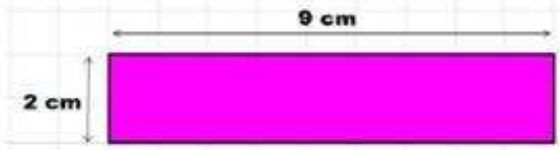
Area: ..... kilometers square

Perimeter: ..... Km



Area: ..... meters square

Perimeter: ..... m



Area: ..... centimeters square

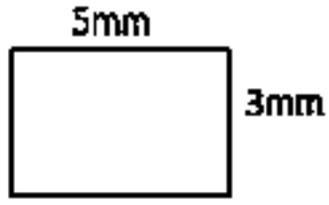
Perimeter: .....cm

---

1)

Area = _____ square cm

Perimeter = _____ cm

2) 

Area = _____ square mm

Perimeter = _____ mm

3)

Area = _____ square m

Perimeter = _____ m

4)

Area = _____ square ft

Perimeter = _____ ft

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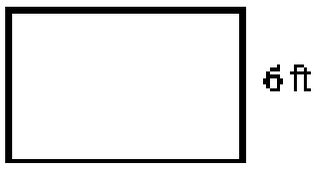
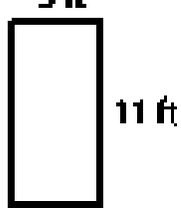
1



Area = _____

Perimeter = _____

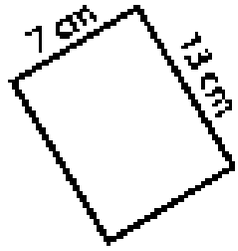
2



Area = _____

Perimeter = _____

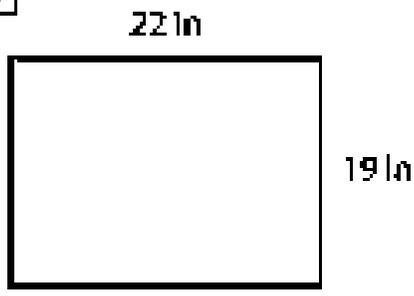
3



Area = _____

Perimeter = _____

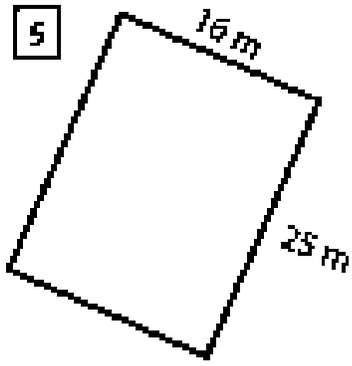
4



Area = _____

Perimeter = _____

5



Area = _____

Perimeter = _____

6

Area = _____

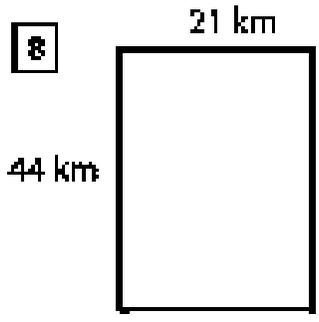
Perimeter = _____

7

Area = _____

Perimeter = _____

8



Area = _____

Perimeter = _____

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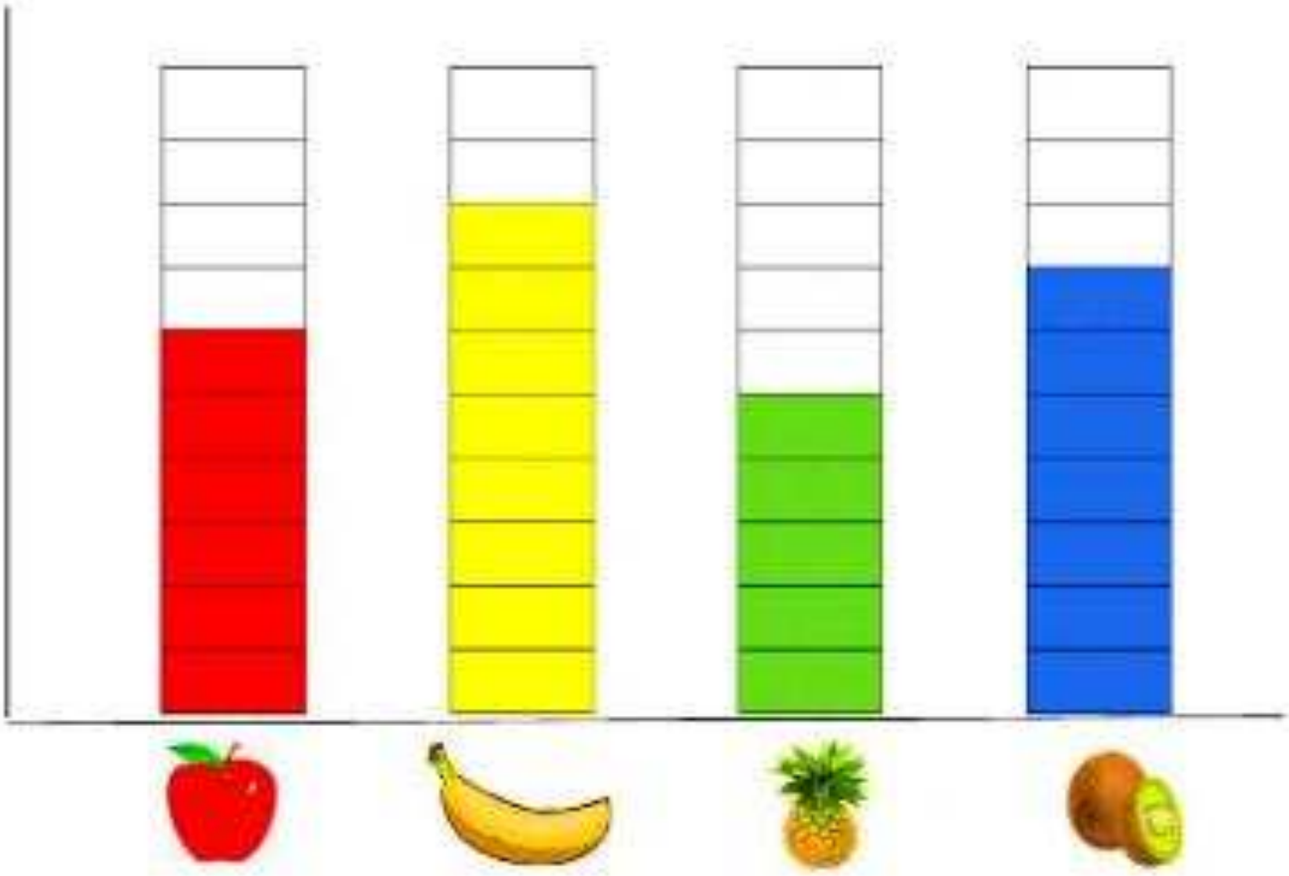

How many kids liked Pineapple? _____

How many kids liked Banana? _____

How many kids liked Kiwi? _____

How many kids liked Apple? _____

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	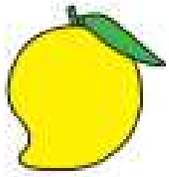	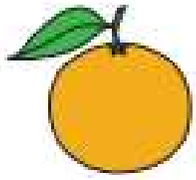	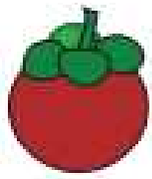
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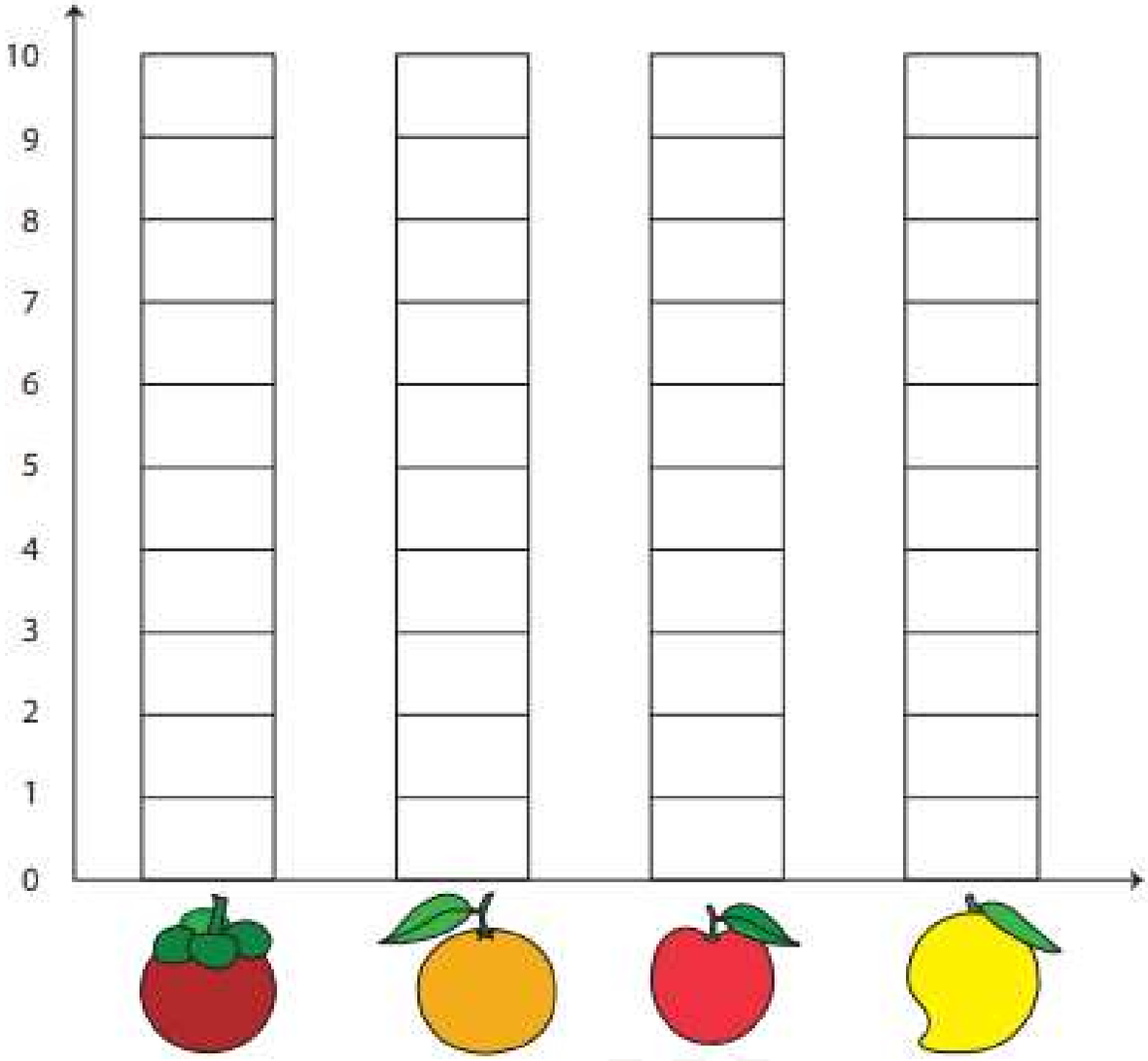

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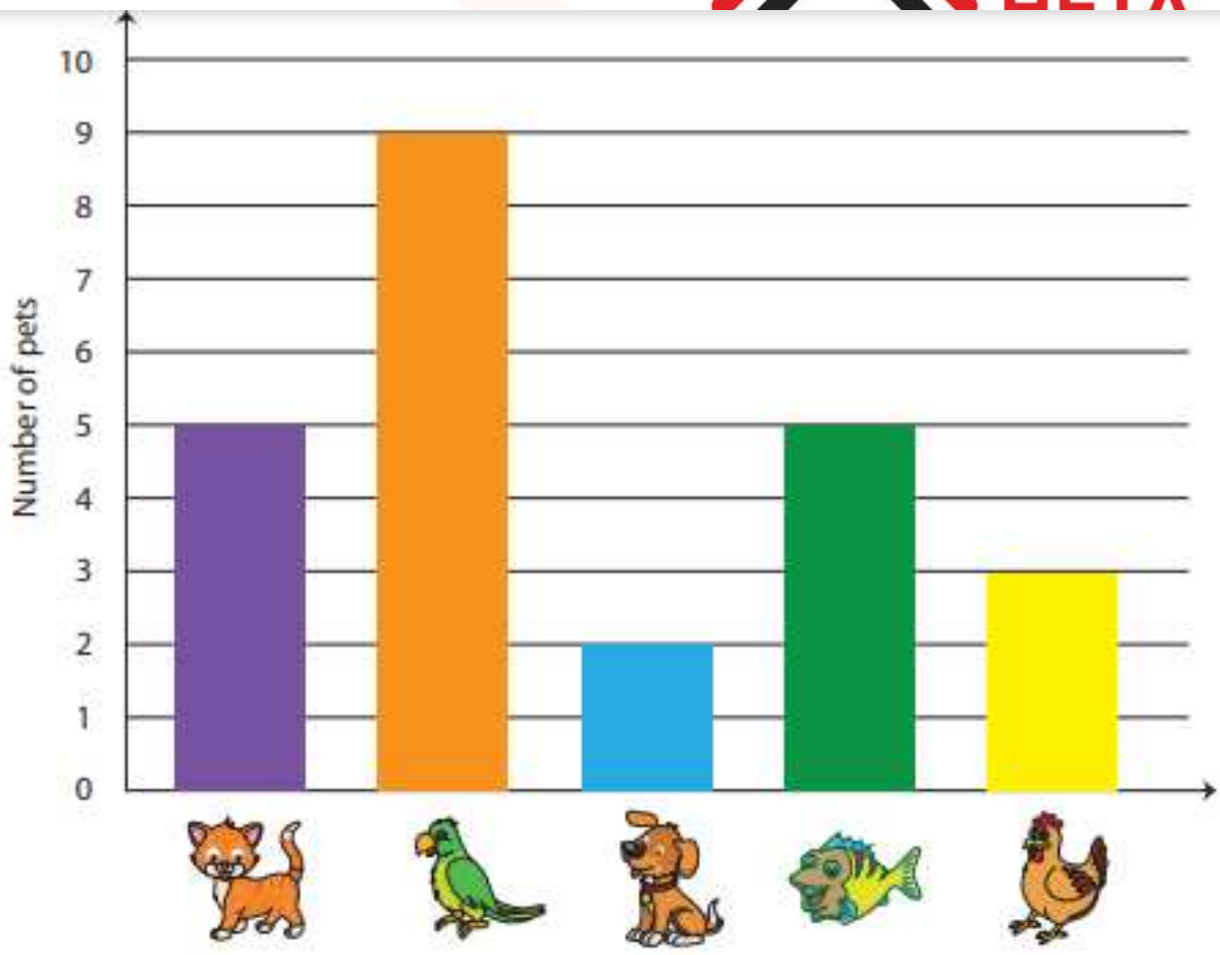

1) How many cats are there in Anne's home? _____

2) How many more parrots are there than hens? _____

3) Which pet is less in number? _____

4) Which two pets are equal in number? _____

5) Which pet is more in number? a) b)

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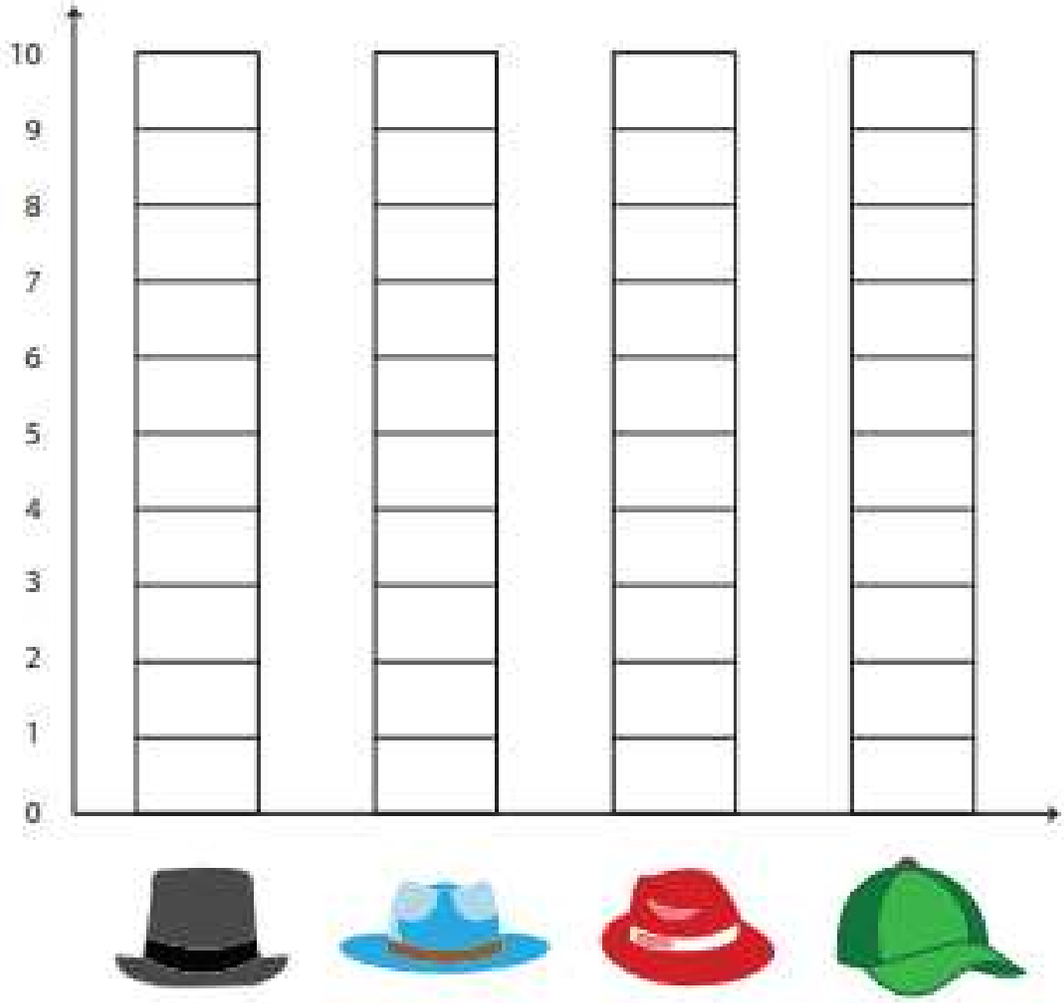
Dr.MoRizK

Dannie bought a variety of hats for the birthday party. He represents that data in the tally chart. Draw the bar graph for the tally chart.

𝍸	𝍸 𝍸	𝍸 ||	𝍸 ||||



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AHMED HETA

Thank you

Mr. Ahmed Heta

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